GENESIS | CCTV™

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Product Manual

HSR DVR

HSR 4000, HSR 9000, HSF 6000

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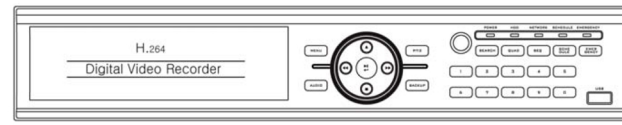
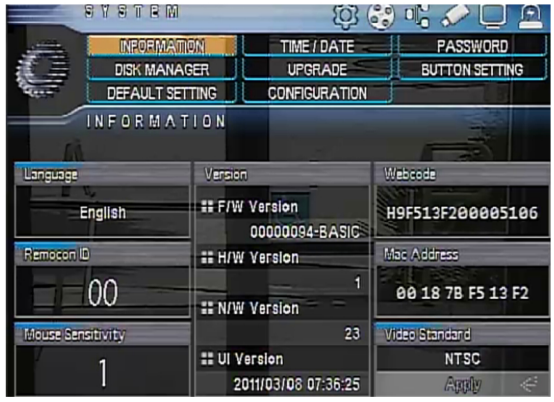


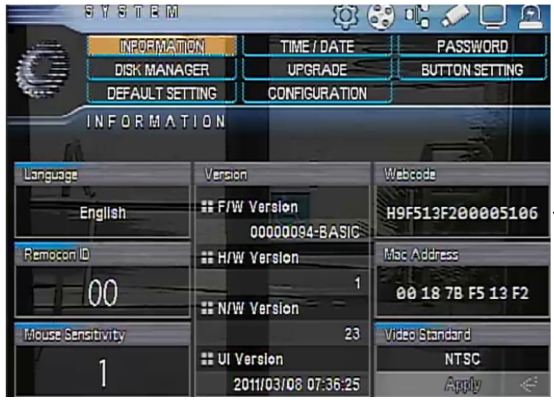
HSR Series Embedded DVR System

●DDNS SETUP

1. Access the DVR's "System" menu, then "Information"

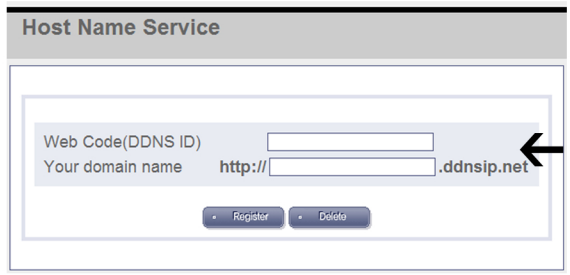


2. Make a note of the "Webcode"



← WEBCODE

3. Go to "http://www.ddnsip.net". Enter the "Webcode" and a domain name of your DVR, then press the "Register" button. You will receive a "Registration Success" message if your DVR was registered. Please note that the domain name must be unique to our DDNS server.



← Enter "Webcode" and DVR's "Domain Name"

It can take up to thirty (30) minutes for the registration process.

Access your DVR via Internet Explorer:
"DVR DOMAIN NAME".DDNSIP.NET
Make sure all port forwarding rules have been set on your firewall.
YOU MUST SPECIFY THE WEBSERVER PORT IF CHANGED UNDER THE DVR SETTINGS!

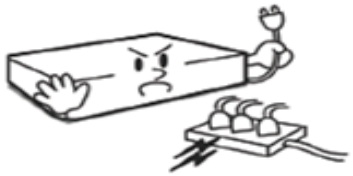
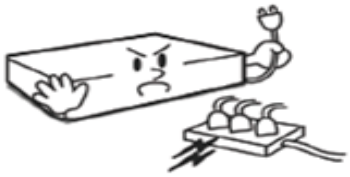
Preface

The user guide is about how to install and use DVR.
In addition to first-time users, the users who've got accustomed to the device of similar kind also must read the user guide and carefully treat the device by complying with a caution of notice. In particular, safety points are intended to prevent any property loss through proper use of the device. When any problem occurs during installation or while in use, don't hesitate to contact seller and ask for help for maintenance. `

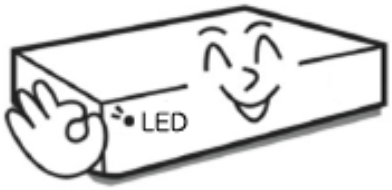
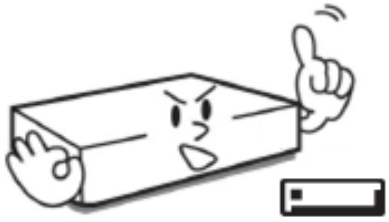
After reading the guide, please keep the user guide always at hand for perusal when necessary.

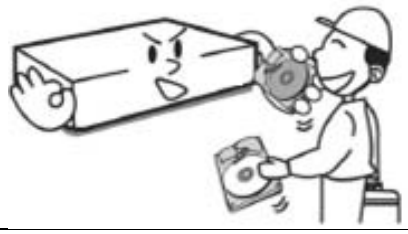
[Reference]
The user guide may show difference from what DVR is following change (or upgrade) in DVR features. Please keep in mind that figures used for description may vary depending on products on 4/9/16 channels.

Note of Caution

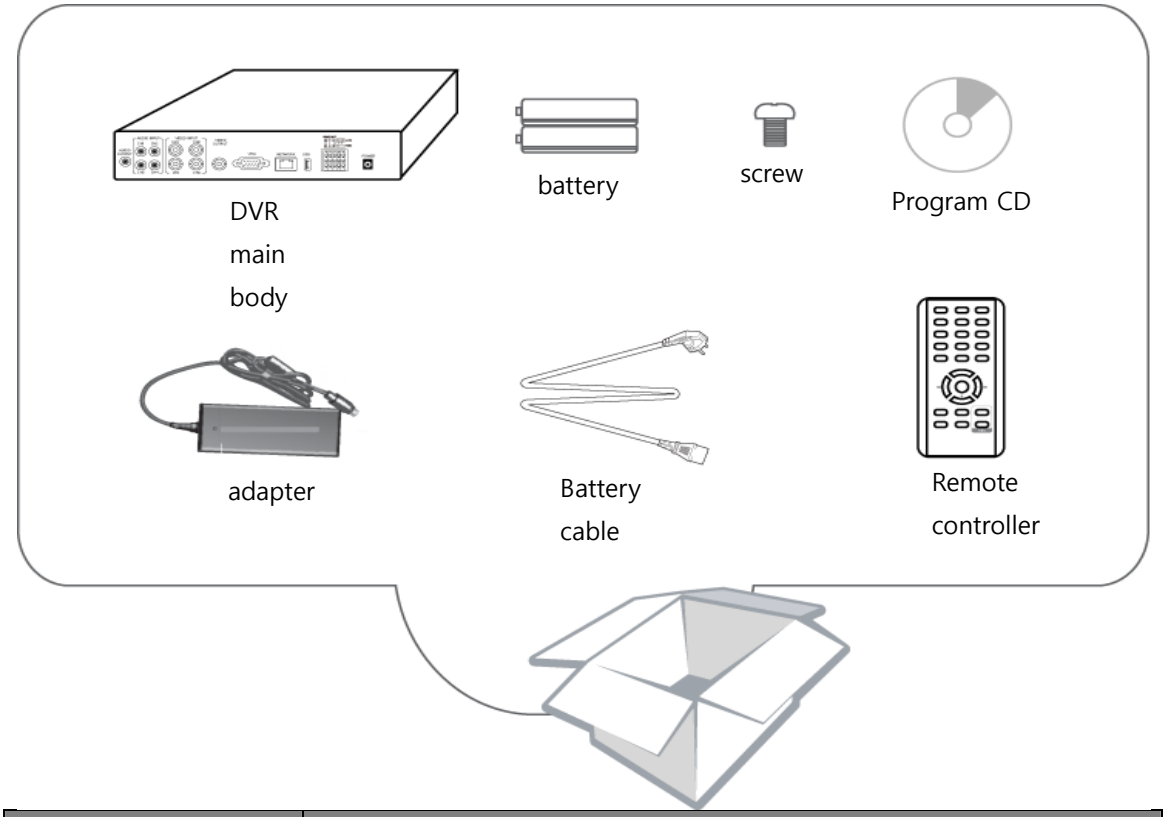
<table>
<tr><th colspan="2">Warning</th></tr>
<tr><td>Check if the power is switched off before installation. Don't plug in at the same time. Otherwise it may be set on fire or put you at the risk of electrocution or damage.
  </td><td>Check if the power is switched off before installation or additional repair. Never plug in while the device is in operation. Otherwise it might be set on fire or put you at the risk of fire, electrocution and damage.
 </td></tr>
<tr><td>Keep the cables at least 15 centimeters away from the wall and at least five centimeters away from the side so that the cables, including power line and video cable, may not be disfigured. Otherwise it might put you at the risk of fire, electrocution and damage.
 </td><td>Never uplift the cover, break down, repair and maintain at your disposal. Otherwise it might put you at the risk of fire, electrocution and damage.
.
 </td></tr>
<tr><td>Keep the device environment always clean before and after installation of the device. Use dry cloth to clean the device. Never use any organic solvent. Otherwise it might be the cause of electrocution or mechanic disorder.
 </td><td>Input voltage of the device should come within the range of 10 percent of specified voltage. Use separate wall power to keep heating appliances, including hair dryer, iron and refrigerator. Otherwise it might be the cause of fire and electrocution.
  </td></tr>
</table>

When strange noise or smell is sensed, immediately plug out and send inquiry to service center or seller. 	Do not install device in humid place filled with dust. It might be the cause of electrocution and fire.

Caution	
Do not install the device in any place where strong magnetic flow, electric wavelength and vibration may be sensed or where radio, TV or other wireless device is located. Keep the device away from magnetic flow, electric wave or vibration. 	Do not put anything heavy on the product. Otherwise it may be the cause of disorder.
Strong shockwave or vibration may be the cause of mechanic disorder. Please be careful. 	Be careful so that anything conductive may not fall into the ventilation hole. Otherwise it may be the cause of disorder.
Check if power switch and record on the front side of the product is still turned on. 	When HDD is overloaded, you change the setting to keep recording. In that case, check again if it would be OK to eliminate the saved data. 

When HDD saving data gets old enough, video data to be saved may suffer so much damage that it may be irreparable. If screen appears broken while regenerating data saved in HDD, it means HDD won't work any longer. Immediately contact service center to replace them. 	When any abnormal sign is detected, immediately contact seller or service center.

Check Components



Component	Description
Main body	Stand alone Digital Video Recorder
battery	Two remote controlling 1.5V (AAA) batteries
Screw	Hard disc
Program CD	Manual and remote-controlling program
Adapter	DC Power supply 12V 5A
Power cable	220V power cable
Remote controller	Short-distance multiple remote controller (ID remote controller)

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Chapter 1. Product features & components

1-1. Features

The highly advanced and high-performance video recorder is designed to make it easier to install and use with unmatched safety.

Main feature

- Able to control pan-tilt by using mouse like joystick
- Frontal USB terminal for easy backup
- Able to back up ODD (optional)
- Able to transmit GIGA network
- Able to access internet with dynamic IP address
- Able to transmit Dual-Stream network
- Able to output simultaneously thru TV, VGA, S-VHS, Spot
- Able to separately specify resolution and frame by channel
- Support a number of pan-tilt protocol
- Able to activate software capable of exercising integrated control (CMS)

Application Range

√ **Banks,** ATM machine, supermarket, convenience store and other places

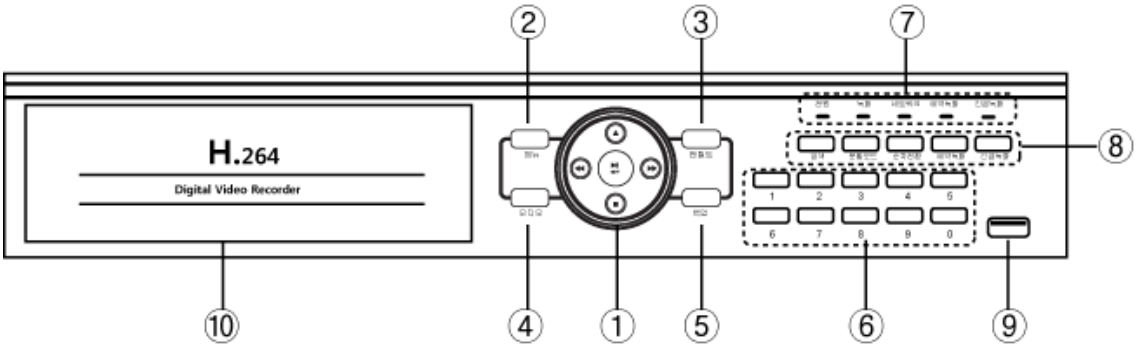
√ **residential area, apartment buildings, jewelry store, commercial building**

√ **places requiring safety for children such as school, elementary school and playground**

√ **warehouse, storage house and workplace**

√ **Places requiring supervision through remote control**

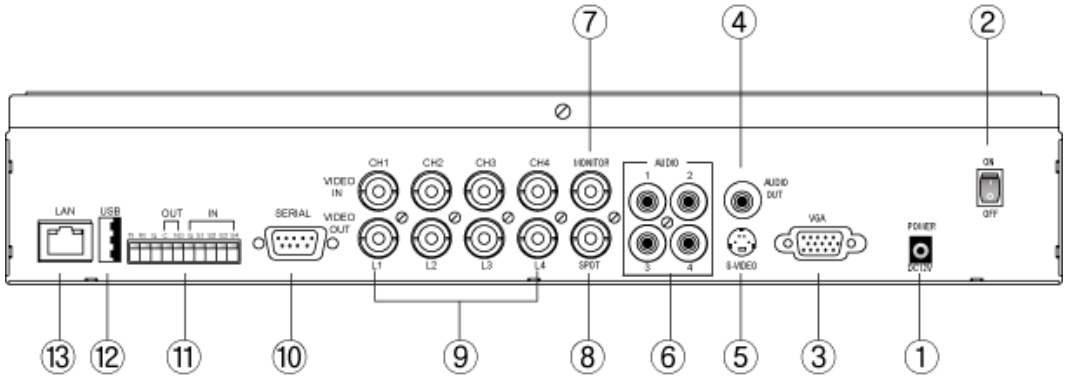
1-2. Component names and features on frontal part



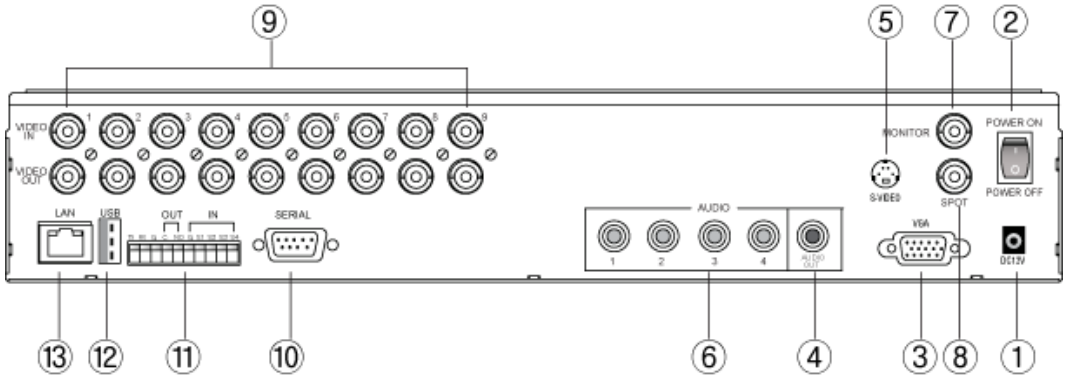
(4/9/16 channel, frontal part)

No.	button/feature	description	
1	Direction/renew buttons	Use Control button on Set Menu	
		Control speed and stop, pause button	
2	Menu	Retrieve menu and move to menu on upper side , cancel	
3	Pan-tilt	Retrieve pan-tilt menu	
4	voice	Retrieve Voice menu	
5	backup	Retrieve backup for Video Record	
6	number	Select channel and enter number	
7	LED status window	Power, record, remote access, schedule record, emergency record	
8	Feature button	Search	Retrieve Search Menu
		Split Mode	Change split mode
		Sequential conversion	Able to automatically switch screen
		Reserved record	Scheduled record
		Emergency record	Emergency record
9	USB port on frontal side	Mouse connection, backup and Firm ware	
10	ODD	Able to connect to ODD depending on option	

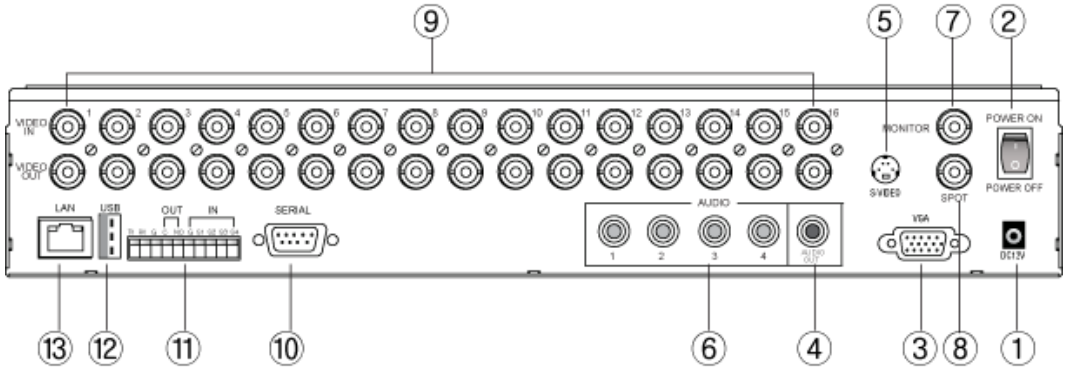
1-3. Component names and features on rear side



(channel 4, rear side)



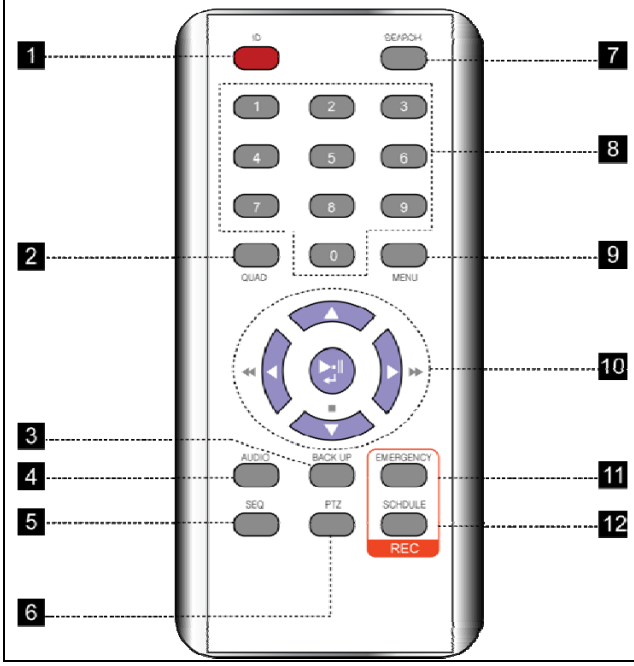
(channel 9, rear side)



(channel 16, rear side)

No	Button/feature	description
1	Power connector	Adaptor power input
2	switch	power ON/OFF switch
3	VGA	Output connector for VGA monitor
4	Audio output	Audio output connector
5	S-VIDEO	S-VIDEO output connector
6	Audio input	Audio input connector
7	Video output	Output connector for CCTV monitor
8	SPOT output	SPOT output connector
9	Video input	Camera video input connector
10	Serial port	Debugging port (used by manufacturer for development and repair)
11	Tx, Rx, Sensor, Alarm	Pan-tilt(Tx, Rx), keyboard(Tx, Rx), sensor input, alarm output connector
12	USB port on rear side	mouse, external hard disk, memory stick connector
13	LAN port	Internet connector

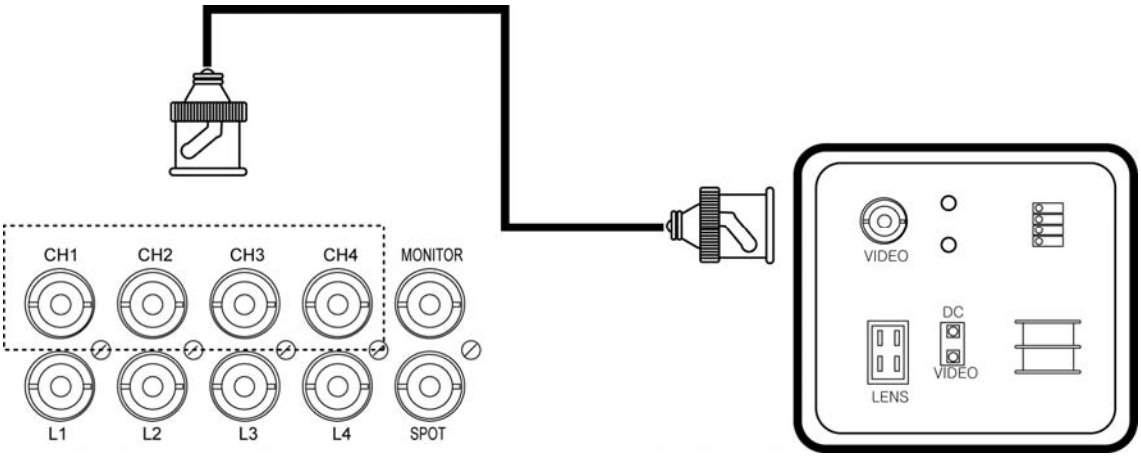
1-4. Remote controller description



1	ID button
2	Split mode(Quad)
3	Backup
4	audio
5	Automatic screen switch (sequence)
6	Pan-tilt
7	search
8	Enter number or change channel
9	Retrieve menu
10	Direction key and check button
11	Emergency record
12	Scheduled record

Chapter 2. Camera connection & setting

2-1. camera connection



Connect camera output to camera input on DVR's rear side.

2-2 camera setting

This is about ways of hiding camera and screen quality.

How to set menu : retrieve menu -> camera -> set camera

CH	Covert	AGC	Static Gain	Brightness	Contrast	Hue
	☐	☐	50%	50%	50%	50%
1	☐	☑	50%	50%	50%	50%
2	☐	☑	50%	50%	50%	50%
3	☐	☑	50%	50%	50%	50%
4	☑	☑	50%	50%	50%	50%

▶ Covert : Once checked, live screen displays no video but record is being processed.

▶ Automatic Gain Control: Designed to automatically adjust gain depedning on camera output signal so that pvideo may be output accroding to adjusted brightness.

▶ Gain Control: able to amplify camera input signal as much as gain.
When screen turns dark, gain increases. When it turns bright, gain decreases. In doing so, gain is adjusted adequately.

▶ Brightness: control screen contrast

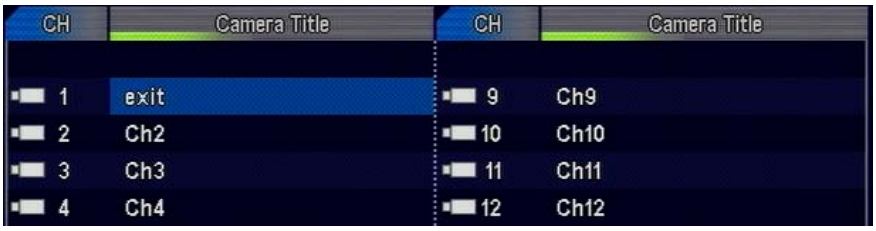
▶ contrast : control black white

▶ color : display darkness of color

2-3 Cameral Title

This is about inputting camera title. Title appears by cahnnel.

How to set menu : retrieve menu -> camera -> camera title



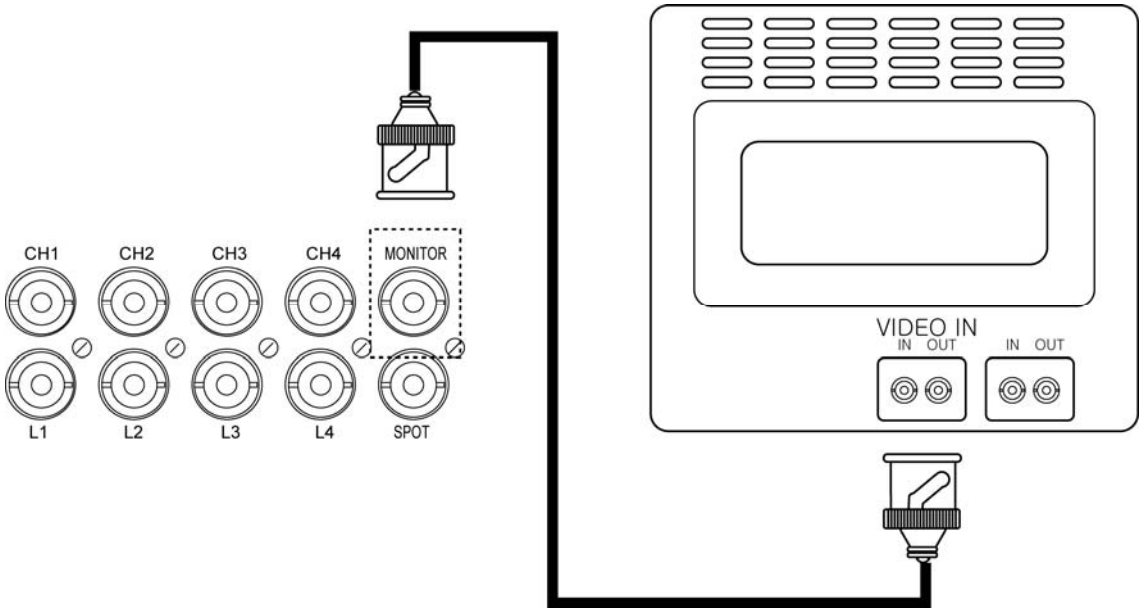
Select channel to enter and enter thru virtual keyboard.

☞ **Reference**

Select blue capital letter "T" through virtual keyboard to change into language acceptable to the system and then enter Hangul.

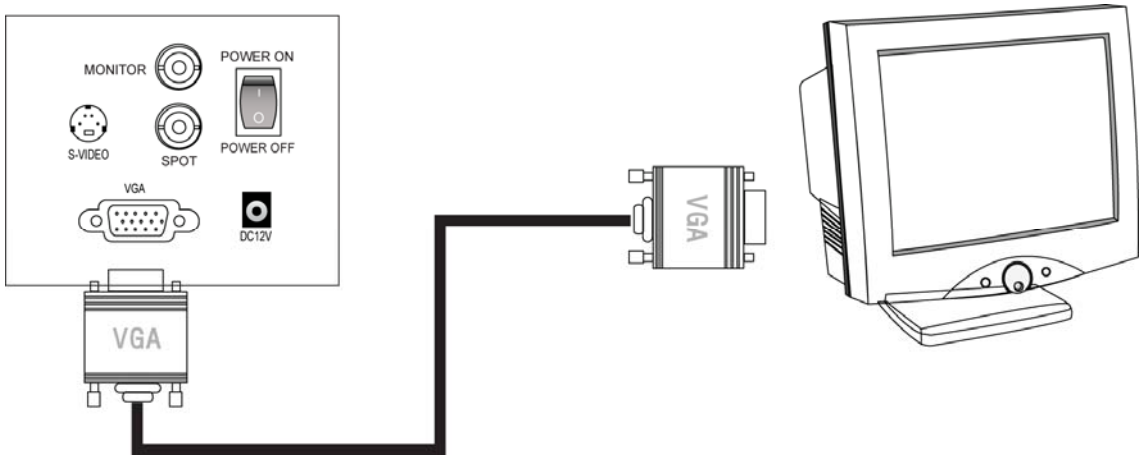
Chapter 3. Video output connection & setting

3-1. Connect CCTV monitor



Connect monitor output on rear side of DVR to monitor's Video In.

3-2. Connect VGA monitor

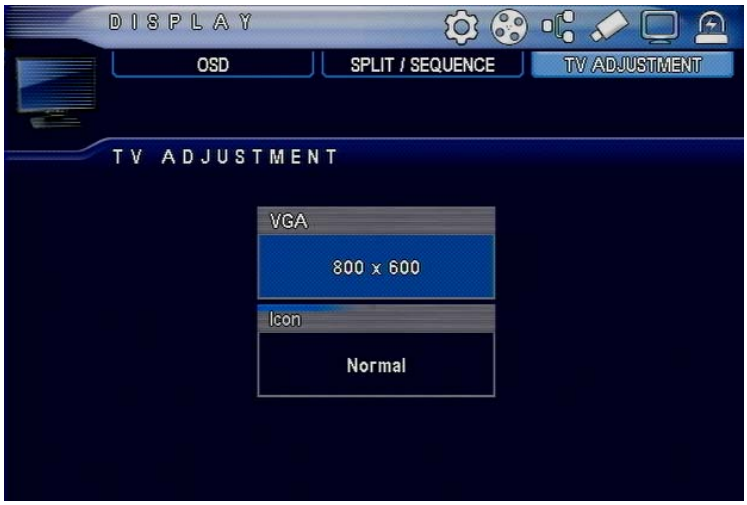


Connect VGA output on rear side of DVR to monitor's VGA IN.

3-3 Control screen

This is about optimizing output conditions for VGA monitor (video output device) or CRT monitor.

How to set menu : retrieve menu -> DISPLAY -> TV ADJUSMENT



▶ VGA : Check and set VGA monitor's resolution to output optimal screen quality.
(Select one among 800 X 600 , 1024 X 768, 1280 X 1024)

▶ Icon : Camera titles, event and record icons are internally displayed through live screen. When using small-sized monitor or older type of monitor, icons may not be visible. Please select right one to use.

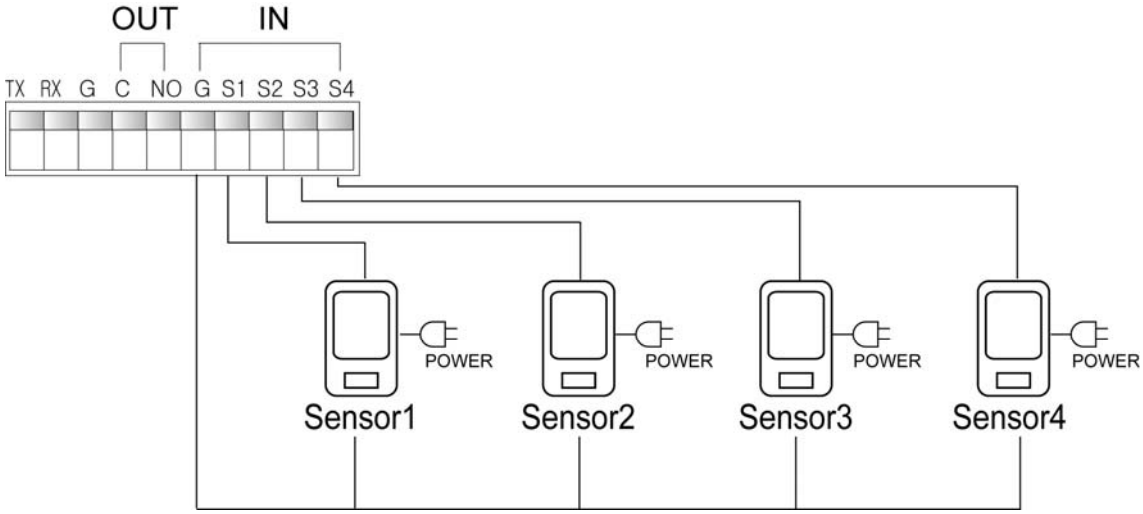
- Normal : select when using general type of CCTV monitor

• VGA : select when using monitor for PC

• Small : select when using older type of CCTV monitor (when the screen is smaller than that of general monitor)

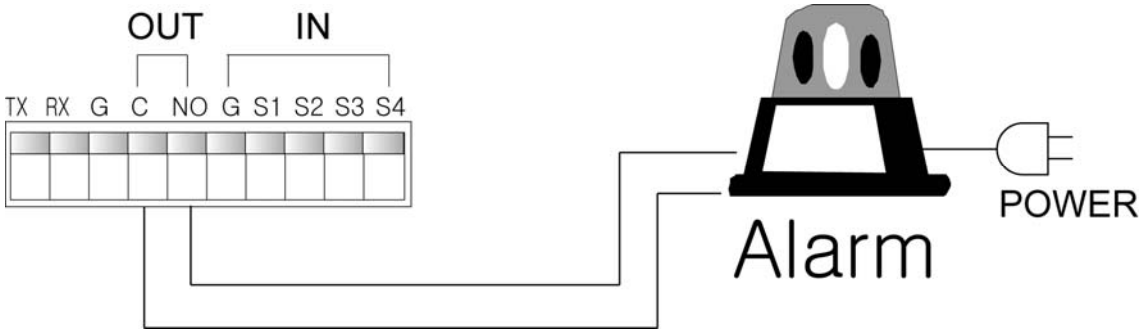
Chapter 4. Connect & Set Sensor/Alarm

4-1. Input sensor



Sensor input is G(-) Ground and may be connected to S1 thru S4.

4-2. Output Alarm



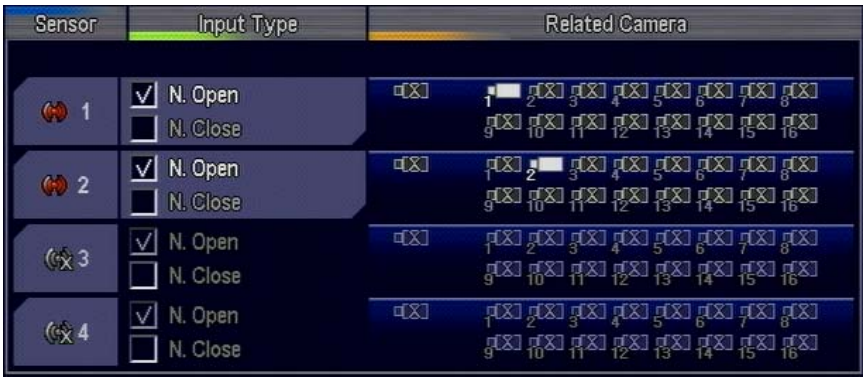
Alarm output may be used through connection with NO, C.

4-3 Set sensor

The system supports up to four sensor inputs.

☞ **OPTION : Able to use up to 16 alarms and sensors when using separate "extended alarm sensor box".**

How to set menu : retrieve menu -> EVENT -> SENSOR



▶ Select Use Y/N.

(Use)

(Not use)

▶ Input method : Choose between Normal Open and Normal Close.

• N/Open (NORMAL OPEN) : Generate signal when contact point closes after it was normally left open

• N/Close (NORMAL CLOSE) : Generate signal when contact point opens after it was normally left closed

▶ Linked channels: Able to use by linking a sensor to multiple channels.

(Not use)

(Use)

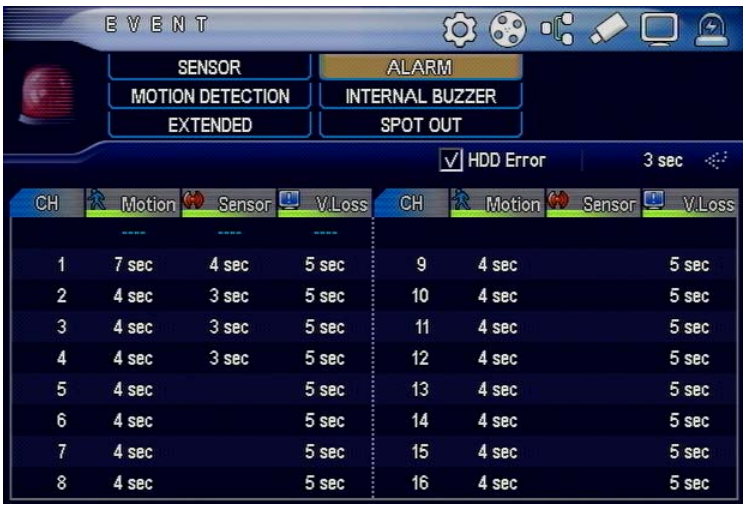
4-4 Set alarm

Set alarm output.

The feature is designed to set off alarm during specified period when video loss occurs or when any motion is sensed or when sensor is in operation.

☞ **OPTION : Able to operate up to 16 alarms and sensors when using separate "extended alarm sensor box".**

How to set menu : retrieve menu -> EVENT -> ALARM


EVENT
SENSOR
ALARM
MOTION DETECTION
INTERNAL BUZZER
EXTENDED
SPOT OUT
HDD Error
3 sec
CH Motion Sensor V.Loss CH Motion Sensor V.Loss
1 7 sec 4 sec 5 sec 9 4 sec 5 sec
2 4 sec 3 sec 5 sec 10 4 sec 5 sec
3 4 sec 3 sec 5 sec 11 4 sec 5 sec
4 4 sec 3 sec 5 sec 12 4 sec 5 sec
5 4 sec 5 sec 13 4 sec 5 sec
6 4 sec 5 sec 14 4 sec 5 sec
7 4 sec 5 sec 15 4 sec 5 sec
8 4 sec 5 sec 16 4 sec 5 sec

The setting below is presented as an example designed to set off alarm for seven seconds when Motion occurs. When sensor is in operation, alarm is set off for four seconds. When video loss occurs, alarm is set off for five seconds.

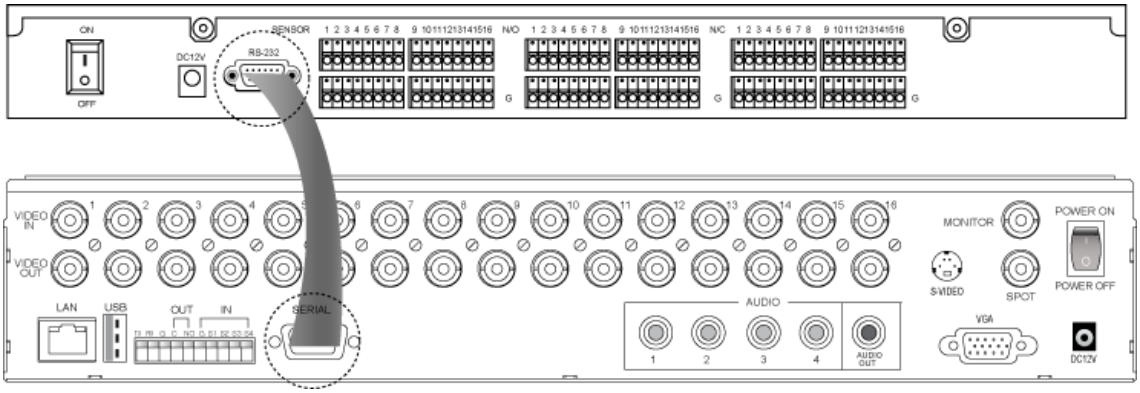
(Blue-colored "sec" represents period applicable to all channels.)

HDD error seen below is designed to set off alarm when problem occurs to hard disk. The alarm is set off during specified period. Specify period after checking. (range: a second ……)

4-5 Extended alarm sensor box (option)

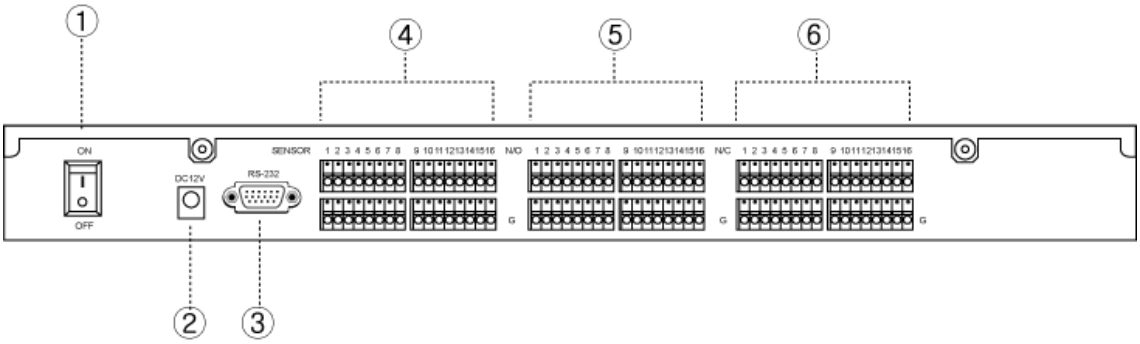
Once extended box is connected, up to 16 sensor inputs and alarm outputs may be usable.

▶ Connectivity diagram



Connect "SERIAL" port to "RS-232" port on rear side of the system.
Connect to extended BOX power and then turn power SW on.

▶ Description



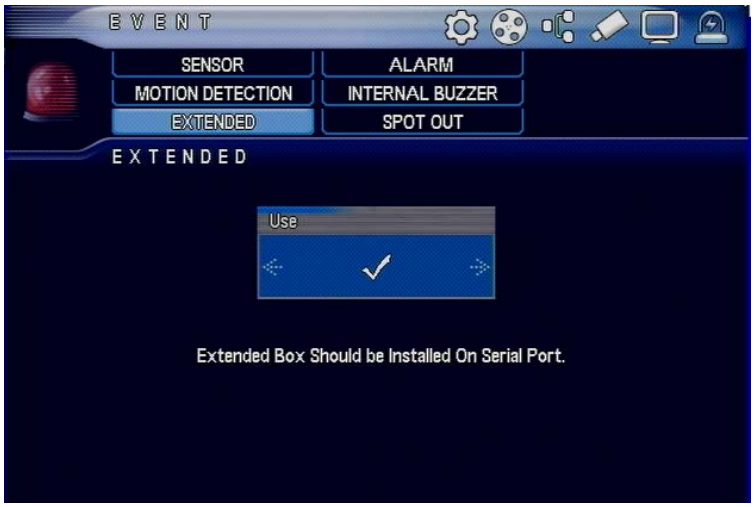
① power SW
② adaptor connector
③ RS-232 port (port connected to system)
④ sensor input (1~16)
⑤ NORMAL OPEN alarm output : 1~16
⑥ NORMAL CLOSE alarm output : 1~16

Alarm output consists of Normal Open and Normal Close. Please check and connect.

▶ Set menu

Able to use only after connecting to extended BOX and setting menu.

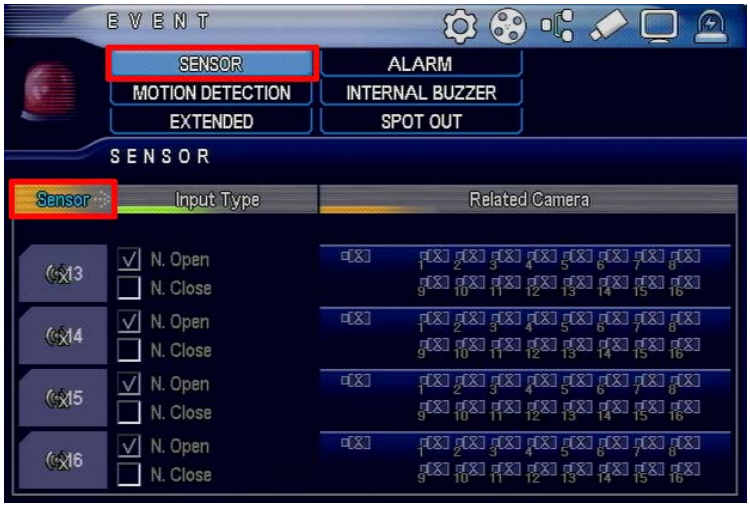
[1] Set "Use" thru Retrieve menu -> EVENT -> EXTENDED.



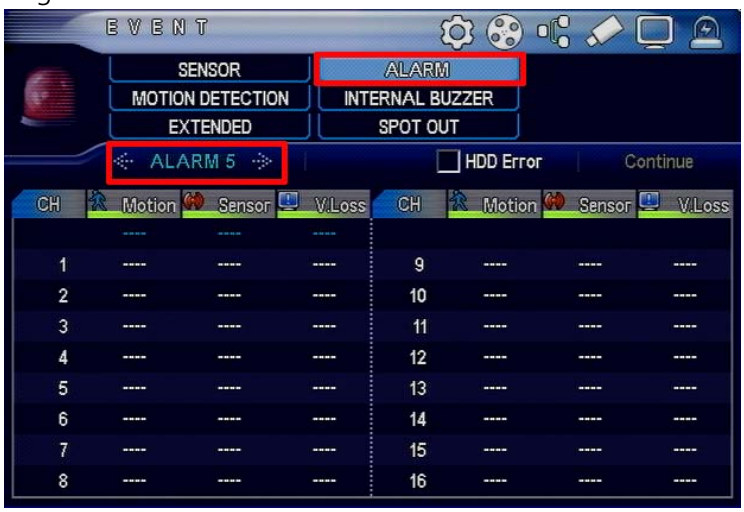
[2] Set RS-232 as described below thru menu -> CAMERA -> SERIAL PORT SETTING.

(transmission speed : 9600Bps, parity: none, stop bit: 1)

[3] Each time when sensor button is selected thru menu -> EVENT -> SENSOR, No. 1 to 16 is changed.

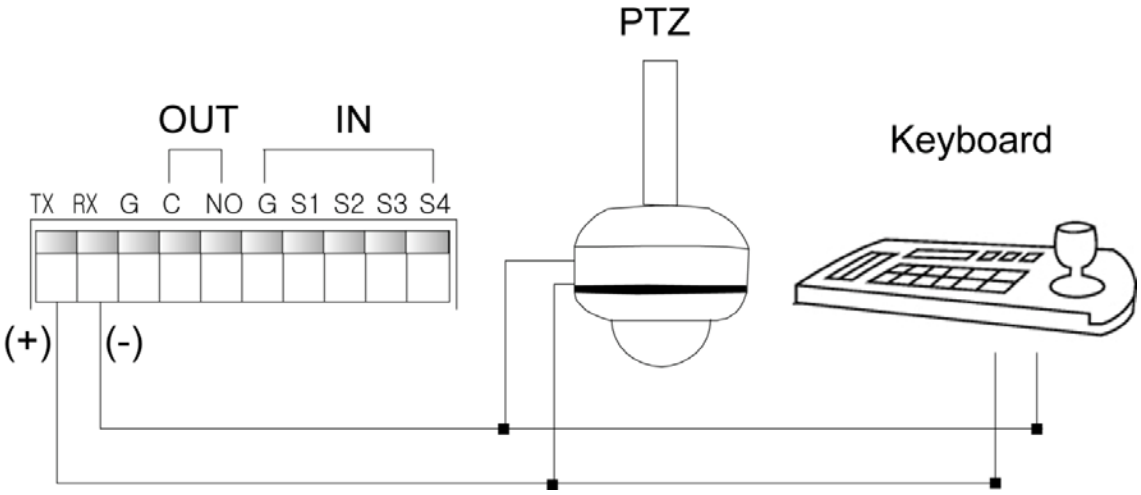


[4] Each time when "alarm (number) is selected thru menu -> event -> alarm, No. 1 to 16 is always changed.



Chapter 5. Connect and set pan-tilt

5-1. Connect pan-tilt and keyboard



Connect to Tx(+) and Rx(-) before connecting to pan-tilt and keyboard.

5-2 Set serial port

Set transmission speed, parity and stop bit for RS-485 communication.

How to set menu : Retrieve menu -> CAMERA ->SERIAL PORT SETTING

Setting may vary depending on pan-tilt camera model. Refer to manufacturer's manual.

5-3 Set pan-tilt

Additionally set model name, ID and additional conditions to activate and control installed pantilt camera.

How to set menu : Retrieve menu -> CAMERA -> PTZ SETTING

Set pan-tilt camera model name and ID installed in channel involved. ID should be set as "0." When more than one is installed, set ID differently and change ID for pan-tilt camera. Refer to pan-tilt camera manual for change in ID.

▶ Additional pan-tilt setting

Select icons described below to additionally set pan-tilt.

- Serial Port : Select "RS-485" for control of pan-tilt camera.

- Reverse Control : moves reversely when pan-tilt moves. The feature is usable when camera is used in an opposite way from how it supposedly should be used. (ie: when installing camera designed for ceiling on the ground)

- Touring Mode : supports two types. Select DVR when using saved location while touring feature is in operation. Select "camera" when using memory of pan-tilt camera. Select after checking specifications of pan-tilt camera.

- Speed: Specify response speed for each feature. (default: 3)

- Change ID : Select " See ID" to be informed of or change pan-tilt camera's ID. Enter "Changed ID" and then select "apply." (If change is not permissible, you should directly change thru pan-tilt camera.)

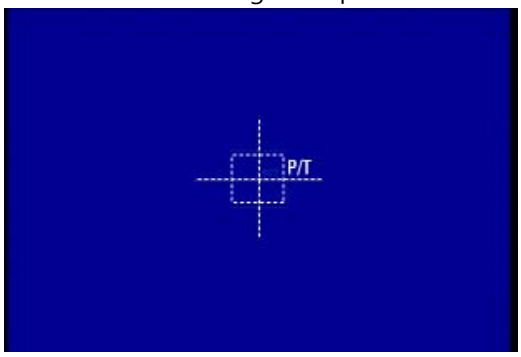
▶ Pan-tilt touring

Touring feature is designed to memorize point where it will be headed and then to repeatedly make move in selected order.

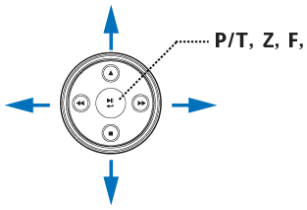
- Select channel : select channel to install pan-tilt camera in.
- Preset : enter pre-set No.
- Speed : enter speed
- Dwell Time : enter stop period of pan-tilt camera.
  UP to 12 pre-sets may be entered in a channel. It repeatedly moves from No.1 thru No. 12 while touring feature is in oepration.

▶How to operate pan-tilt

Select channel and "PTZ" button to change into pan-tilt mode.

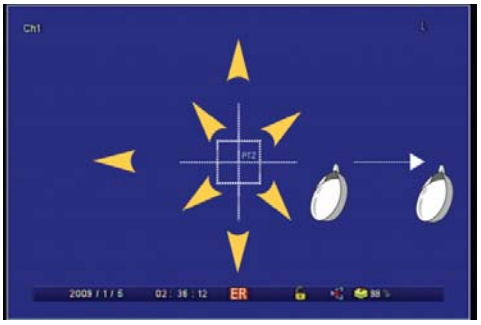


[When using frontal direction button (or remote controller)]



- Use direction button to move camera.
- Whenever pressing check, the feature changes in the order of Pan/Tilt, Zoom and Focus. Use buttons on right and left side to move.

[When using mouse]

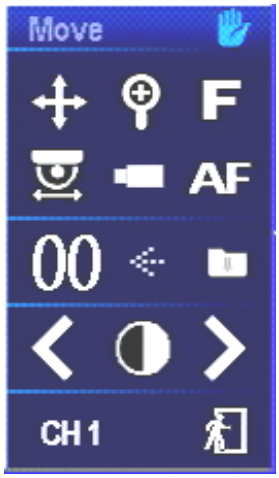


- When dragging the desired location outwards with mouse, camera moves at your disposal and may move faster as it is away from the central point.

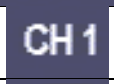
• Whenever rolling mouse scroll button. The feature changes in the order of Pan/Tilt, Zoom and Focus. Use the button on right and left side to move.

[Pan-tilt feature menu]

Select "PIZ" from pan-tilt mode again and feature menu appears. When pan-tilt camera is in operation, you may use needed feature.



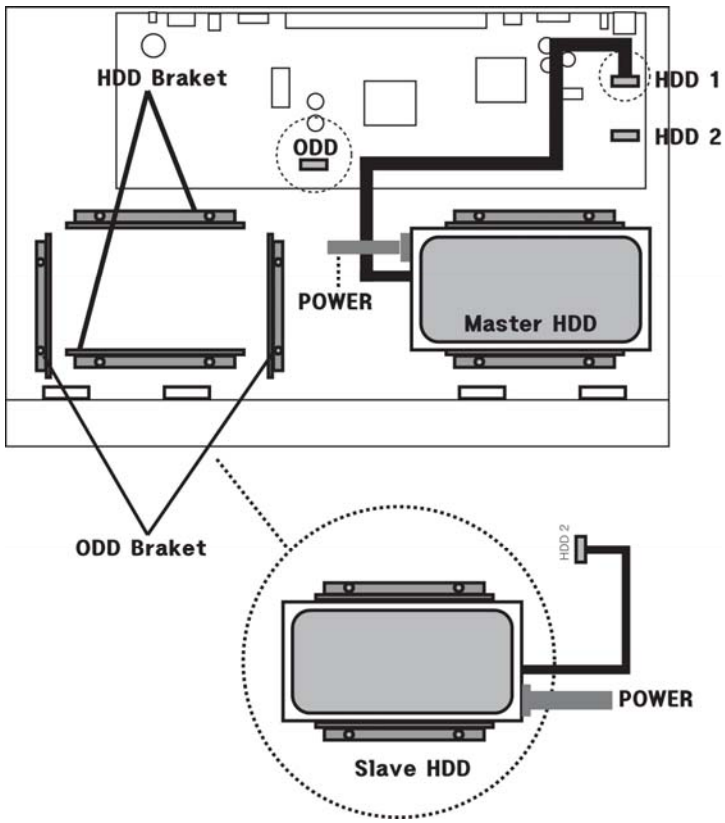
	Able to change POP-UP location
	Able to change direction of pan-tilt camera
	Able to change into "extend and minimize pan-tilt"
	Able to change into camera focus mode
	Touring feature
	Able to retrieve menu built in pan-tilt camera
	Able to operate automatic focus function
	Able to enter pre-set No. and save
	Enter and press preset No. to move and then camera moves accordingly
	Able to enter preset No.

	Adjust IRIS
	Change channel
	exit

Chapter 6. Connect and Set Hard Disk

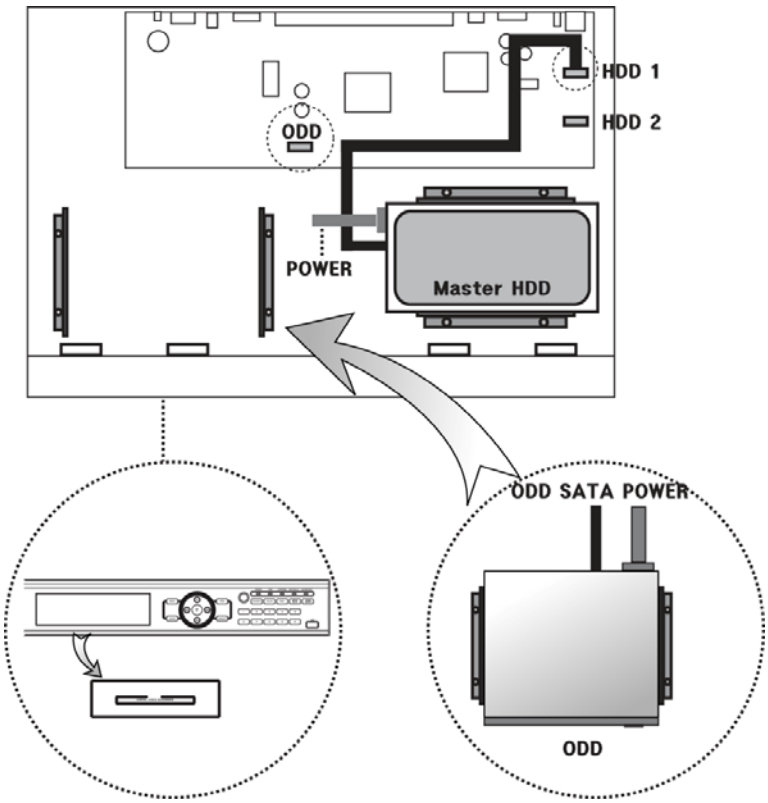
The model may feature up to two hard disks, one ODD and one hard disk.
The model may be used to back up saved video, which may be linked to USB or external hard drives.

6-1 Install hard drive



When installing a single hard drive, install it in "Master HDD" as described in picture above and connect it to power supply device and then connect SATA cable to main board "HDD1."
When using two hard drives, install "Slave HDD" as described in picture above, connect it to power line and connect SATA cable to main board "HDD2."

6-2 How to install ODD



When assembling ODD, separate front part from main body and then remove ODD cover from front to assemble again. When separating front from main board, be careful not to touch cables linked to main board. Fix it to ODD Bracket and then connect it to power line and then connect SATA cable to ODD-specific port on the main board.

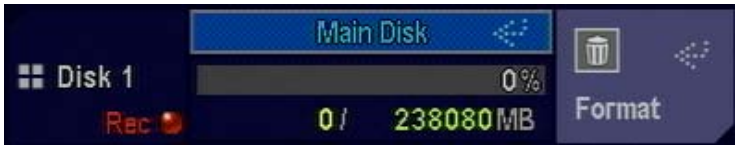
6-3 Control disk

Start setting in connection with HARD DISK and ODD embedded into the system. This part is related to recording. When setting goes wrong, error may occur to system or recording. Please check before setting.

How to set menu : Retrieve menu -> SYSTEM -> DISK MANAGER

▶ Disk 1

Set the first hard disk connected to “HDD1” on the system.



- Set Main Disk or Mirror Disk.
  (When not used, specify “None”)
- Format : format hard disk.
- volume : used volume/HD volume (ie:: 0 / 238080 MB)

▶Disk 2

Set the second hard disk connected to “HDD2”.

- Specify Main Disk or Mirror Disk. (When not used, specify “None”)
- Format : format hard disk.
- volume : used volume /HD volume (ie : 0 / 238080 MB)

☞ **Reference**

- **Main Disk : the first hard disk to be saved during recording.**
- **Mirror Disk : disk to be saved identically with main disk. When main disk causes error, data may be retrieved due to copy version.**
- **When “Main Disk” or “Mirror Disk” is in operation without installing hard disk, the system will set off beep sound. And it will be recorded as hard disk error in log.**

▶ CD / DVD RW

Signal may vary depending on whether the system features ODD. When installed, the signal may be “V.” When the opposite is true, “Ø” will be displayed.

▶ Overwrite

When the entire hard disk volume is consumed, the saved data will be erased as much as new data entered. (V : overwrite Ø : Not overwrite)

▶ Auto Delete

Able to maintain data during specified period while automatically deleting data saved previously. (range : Not use, able to set up to 120 days)

▶ Error List

When errors occur to hard disk, including read, write, connection status and recognize hard, the date will be left. Select delete to erase the data.

▶ S.M.A.R.T(Control disk)

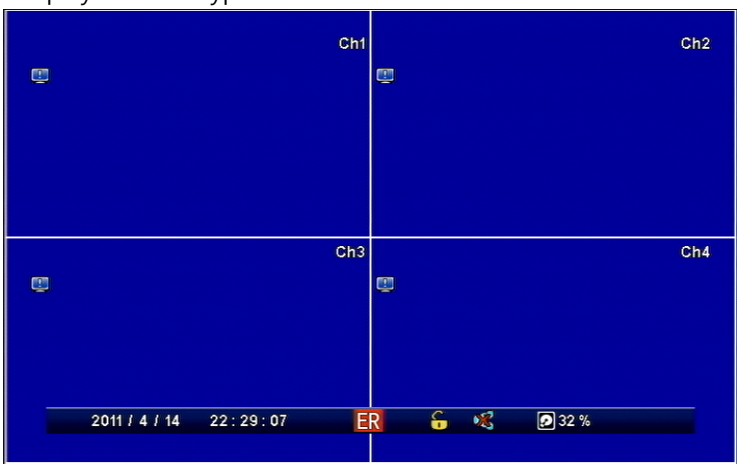
Able to display installed hard disk temperature. When temperature rises as specified, buzz sound is set off.

Temperature range: Not use , 10℃ , 20℃ , 30℃ , 40℃ , 50℃ , 60℃ , 70℃ ,80℃ , 90℃

Chapter 7. Features

7-1. Status signal

This provides description of icons displayed thru live screen. By providing various events, period and record signals, it displays diverse types of icons.

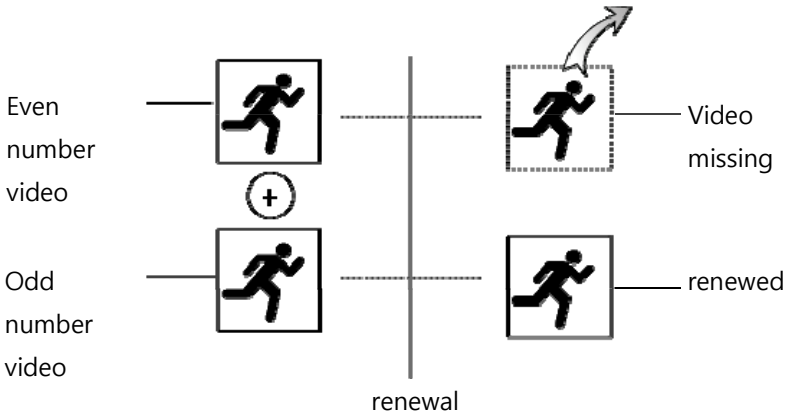


	Daylight savings: available when summer time is in effect
	Emergency record : available when emergency record is in operation
	Record schedule: available when recording is processed as scheduled
	LOCK : available when screen points to Lock
	Sequential conversion: available when video is in sequential conversion
	Internet connected: available when internet is connected
	Available when internet communication is going on
	Sensor : available when sensor is sensed
	Motion : available when motion is sensed in specified area
	Video loss : available when no input video signal exists
	Record : available when video is being saved in hard disk
	The interface : available when Ghost is renewed It is left on/off whenever “sequential conversion” is pressed for renewal

☞ **Reference**

What's The Interface?

It is a symptom only seen in D1-level record (720X480) mode. The feature is designed to prevent GHOST phenomenon by removing unmatched odd and even numbers while renewing video after recording. The demerit is that the renewed screen may look to have poorer quality than the original one. Select one depending on situation. Whenever "sequential conversion" is pressed, "The interface" icon is left on/off, allowing you to see icon thru status bar.



(status bar)

▶ Date & time

In Live Mode, current date and time id displayed. When the mode points to Renew, record date and time is displayed.

▶ Display remaining HDD

Of the entire HDD volume, the proportion of recorded volume is displayed.

▶ Renewal Speed

In Renewal mode, ▶(forward speed) ▶▶(faster forward speed), ◀(backward speed), ◀◀ (faster backward speed) are displayed. The speed is displayed in the order of one-fold, two-fold, four-fold and maximum speed.

7-2. Log-in

The product's administrative account and password are originally set as "admin" and "11111111". You can use as many as seven user IDs, excluding admin, each of which may be given authority. You can change setting thru Menu-> SYSTEM ->INFORMATION-> Password.

▶ User ID

You can register as many as eight system users.

This is the list of IDs being registered. If you want to edit, select the list and you can move on to "change" menu.

▶ Modify

You can modify information of selected ID (account).

- ID : Displays ID selected thru list. If you want to change, select and enter through virtual keyboard. You can enter as many as eight English letters, numbers and Hangul.

- Group : Certain authority is given to each group so that you can more easily specify authority. Select one and the group may receive authority.

  ▷ admin : allows you to use all features.
  ▷ power User : allows you to select authority applicable to setting, search and backup.
  ▷ User : allows you to select at their disposal.

- Password: allows you to enter as many as eight numbers. Every ID account basically has password "11111111."

☞ **Note**

Select blue-colored "T" thru virtual keyboard to change into language acceptable to the system and you can enter.

▶ Authority

Select authority for selected ID and then set group as "user" for checking authority.

- All : Give all authority.
- Configuration : allows you to set DVR.
- Search : allows you to search.
- Backup : allows you to back up saved video.
- Hard Disk : allows you to use control rights to hard disk, including Erase and Overwrite
- Record Key : allows you to use scheduled recording or emergency record button.
- PTZ Control : allows you to use pan-tilt.

▶ Network Covert

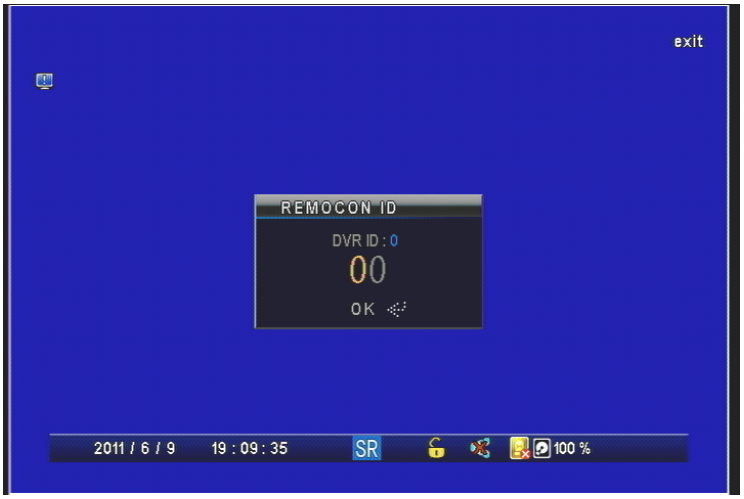
Selected camera does not appear while being monitored thru remote control.

Use Select button in front of channel to use Apply All or Cancel All.

7-3. How to Set Remocon ID

The remote controller is designed to control more than two DVRs through ID.
Each DVD should have pre-set ID. The remote controller matches IDs for control.

The product has basically ID called “00”. When multiple controls are needed, set different ID for menu-> system -> information -> remote controller ID. .



Press ID of DVR and you can see the menu above. “DVR ID : XX” refers to ID currently specified in DVR. Enter the same ID using the number on remote controller and press Check for control.

7-4 QUAD(Split Screen) Feature

This enables monitoring by splitting live screen into multiple ones.

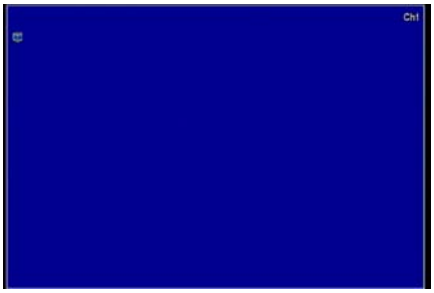
▶ Action

Press "QUAD" to change into split screen.

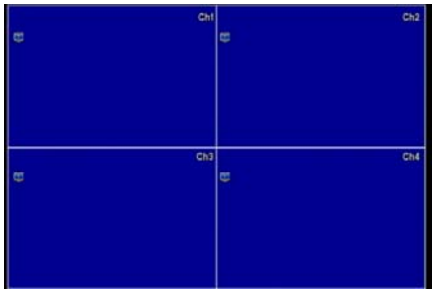
▶ Change into various types of split screen

When Up button is pressed, various split screens appear.

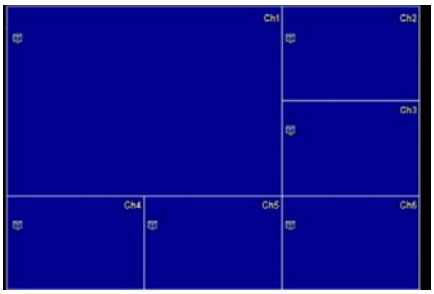
(Split screen looks different by product. When the channel is four, channel and four split screen appear)



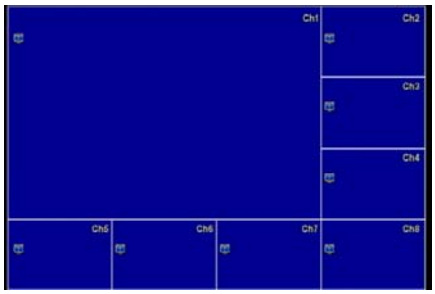
(1 channel)



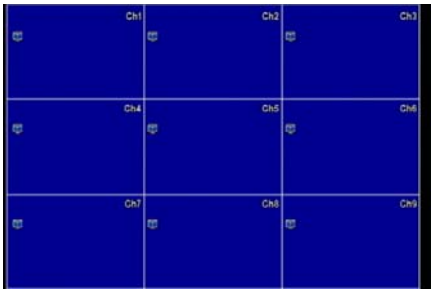
(four split)



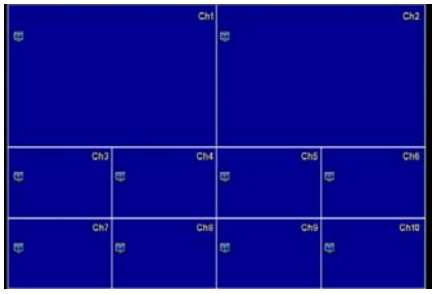
(six split)



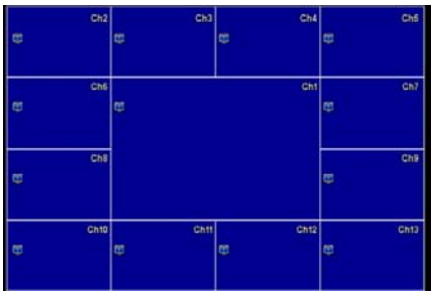
(eight split)



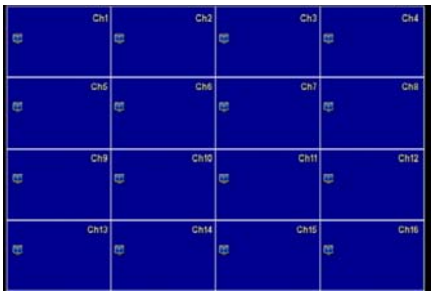
(nine split)



(10 split)



(13 split)

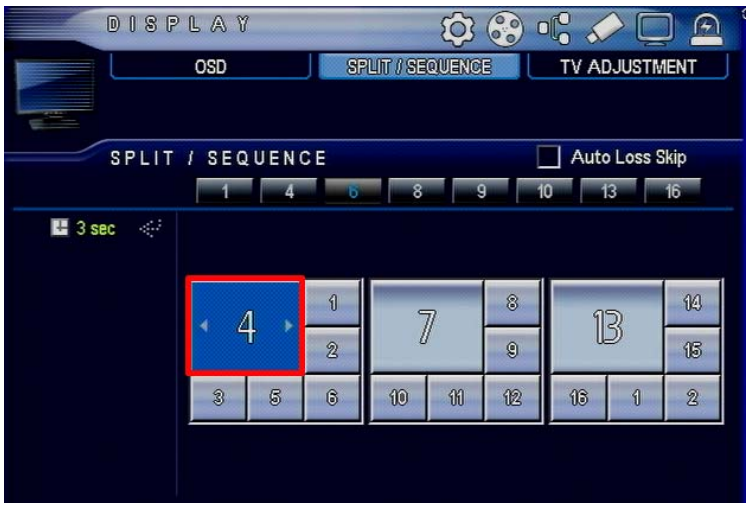


(16 split)

▶ Set split screen channel

The feature is used to change channel in split mode.

Set in menu -> DISPLAY -> SPLIT/SEQUENCE.

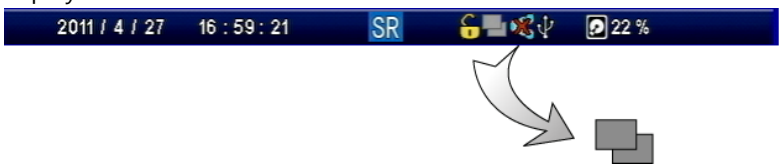


Select channel to change as described above and press Check. After that, press button on right and left sides to change channel.

7-5 SEQ (Automatic Channel Switch) Feature

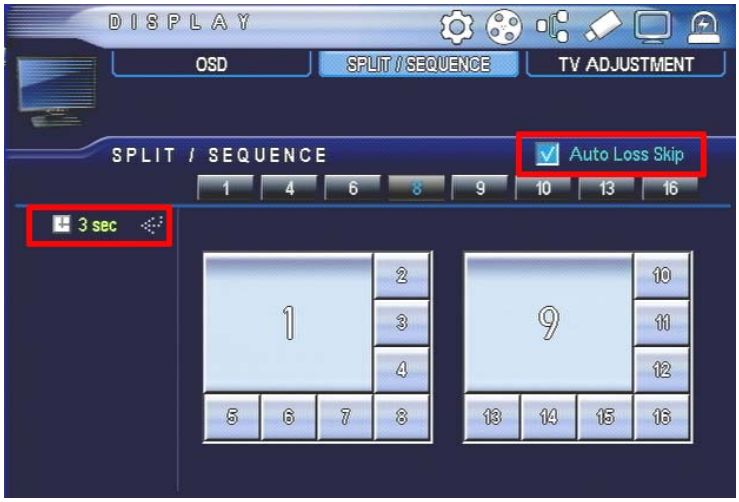
Automatic channel switch feature is designed to switch screen in a specified order.

Press "SEQ" to display icon described below.



(signals SEQUENCE in operation.)

Able to set in MENU -> DISPLAY -> SPLIT/SEQUENCE.



▶ Select channel

In Sequence, you can see the screen split into 1, 4, 6, 8, 9, 10, 13 and 16. Select channel to specify.

▶ Auto Loss Skip

In Sequence, channel displaying no video is excluded.

▶ Time setting

In Sequence, set Stop Period by channel. The screen is switched based on specified time interval.

▶ Change channel

Select channel in split screen to change into other screen.

7-6 Emergency Record

Emergency record, once selected, is designed to operate record function regardless of record schedule. When "emergency record" is selected, the icon below appears in status window.

☞ **Note**

When emergency record is in Lock, it does not work. If emergency record is in operation even after the work is finished, it may unnecessarily consume hard disk or overwrite existing data. Accordingly, it should return to scheduled record after the record is finished. The feature is added for the benefit of customers who do not want to use it.

You can set through Menu-> System-> Specify Button.

7-7 Backup Feature

The feature is designed to save video data saved in DVR in external hard disk and memory stack. The model equipped with ODD may receive backup.

☞ **Note**

When trying backup using external hard disk, please use external hard disk embedded with external power supply. Disk to save should be formatted into FAT32. As for disk capable of saving 30G or more, it should use commercial program capable of doing FAT32 format.

Connect storage device for backup and then select "backup" button.

▶ Select camera

Select camera to backup.

(Not select)

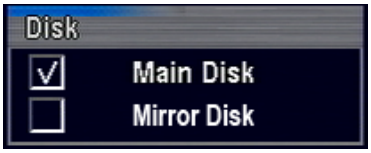
(Select)

▶ Select date

Select date to back up.

▶ Select disk to save

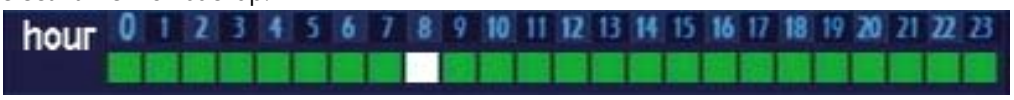
Select disk to back up.



- Main disk: Process backup thru disk used as main disk
- Mirror disk : Process backup thru storage disk specified as mirror hard disk

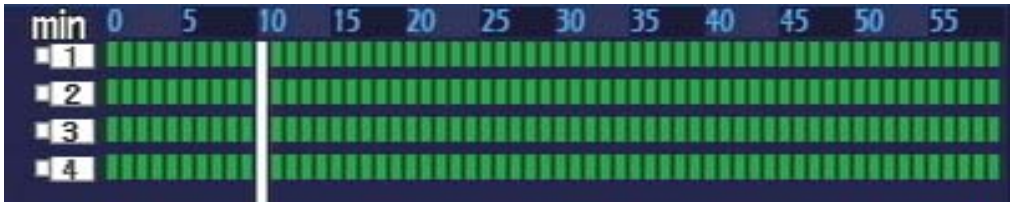
▶ Select time

Select “time” for backup.



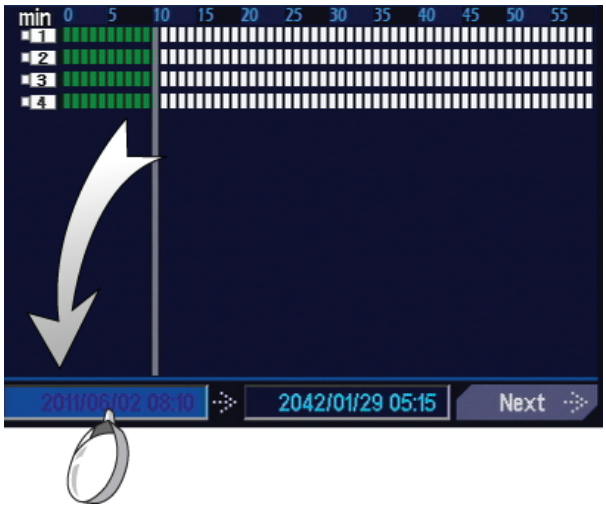
▶ Select minute

Select “minute” for backup.



▶ Register backup start time

Once Select Backup Time is completed, select “start Time” on the left low side of menu to register.



▶ Select Backup Completion Time

Select Minute to select backup completion time and then select “completion time” on the right side to register. And then press Next.

☞ **Note**

This provides description about backup in the same time zone. When it is in different time zone, register "Start Time" and then select date or "time" and "minute" before selecting completion time."

▶ Select Backup Option

Select various options for backup.

- Backup device: Select USB for backup involving USB port. Select ODD for backup involving "ODD."
- Backup range : Display selected backup time.
- Option : Select "audio" for backup involving voice.

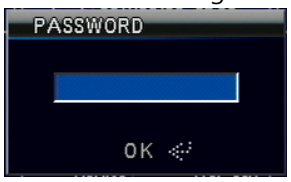
▶ Check backup volume

This is designed to check selected backup volume and remaining volume of storage device. If it contains more data than its storage volume, please set backup time from scratch.

- Device: display potential storage memory volume
- Data : display selected data volume

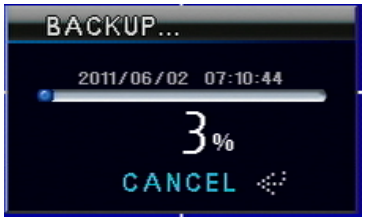
▶ Backup password

The feature is designed to save password for backup.



▶ Backup process

Display backup progress.



▶ Display backup completed

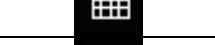
Once "backup completed" appears, you can detach storage device from USB port.

7-8 Backup viewer

Once backup is completed, icon "BKV" will appear as described below. It is designed to renew backup file.

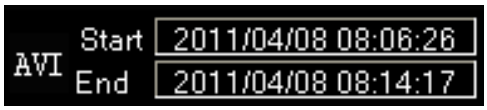
Click to execute viewer program.

(Backup viewer program)

Icon	Description
	Open file
	Fast backward
	Backward
	Backward by frame
	Stop
	forward
	Fast forward
	Display fil1e list
	Switch into four split mode
	Switch into nine split mode
	Switch into 16 split mode
	Image capture
	audio & volume
	Select channel

▶ **AVI conversion**

The feature is designed to convert backed-up video into AVI. Click Start to enter start time. Click End to register "end" time. Click "AVI" to start converting into AVI.



7-9 Audio

When processing record in DVR with mike, you can hear audio live or in renewal.

▶ Retrieve Menu: select "AUDIO" for renewal or Live.

▶ Audio : Click speaker icon to turn it on/off.

(able to process audio)

(Cancel audio)

▶ Adjust volume :Volume increases as it moves to the right.

▶ Auto : Able to automatically output audio through multi channel

▶ Not use : Not able to hear audio

Chapter 8. Set Menu & System

8-1 Information

Information consists of Firmware version, language, remote controller ID and mouse snesitivity.

▶ Language

The feature supports multiple languages and is capable of changing language. At the time of delivery from plant, the language was set at mother tongue of the country involved.

▶ Mouse sensitivity

The feature is designed to set mouse sensitivity. Please use the mouse at your disposal. (default: 1, Motion sensitivity grows brisk as the number increases)

▶Version

The feature is designed to display various versions of the product. The information will be needed at a time of upgrade or A/S. .

- **Firmware version** : display software version
- **Hardware version** : display hardware version
- **Network version** : display network version
- **Interface version** : display UI version

▶ Web cord

This represents product's ID that will be necessary for remote monitoring via internet.

▶ Hardware address

As network MAC address equipped with the product, it represents number under control at a time of product delivery from plant and does not require user.

▶ Video input method

Video standards by country consist of NTSC and PAL. Select one to use. (Some products may not be changed depending on Firmware.)

8-2 Time & Date

Select time and date from system menu

▶ Set year/month/day

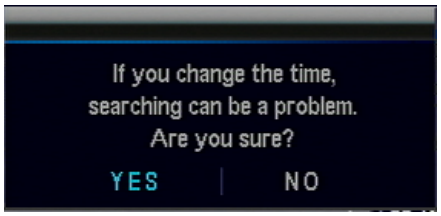
Select type by country

- ASIA : year/month/day --> (ie) 2006/05/31
- US : month/date/year --> (ie) 05/31/2006
- EURO : date/month/year --> (ie) 31/05/2006

▶ Set date & time

Select current date and time.

Select time and press "Apply." And then check Note Message to select "Yes."



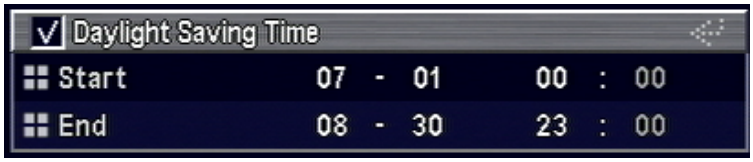
The message above shows that time may not consistently be displayed if search follows change in time while existing recorded data still remain.

(For example)

- when time change from 3 to 4.: Video is displayed for four
- when time change from 3 to 2: Video recorded until up to three is displayed and then video is played for two o'clock.

▶ sunlight savings time

The feature is sunlight savings time or summer time. During specified period, time is adjusted an hour later. When end date comes, time automatically gets back to an hour before.

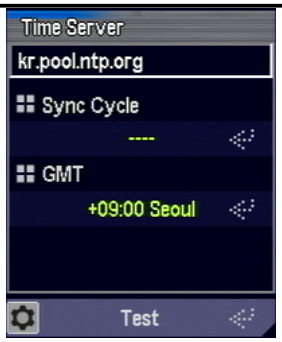


- start: enter start date and hour. .
- end : enter end date and hour.

▶ Time server

The feature is used to keep system hours constant.

The feature synchronizes time through specified time interval and server.

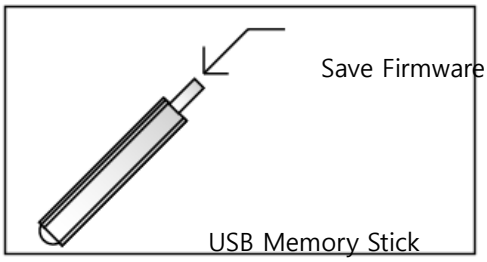


- **Enter time server** : enter time server URL and IP
- **Time-linked cycle** : select time
- GMT : sepcify the country's standard time zone
- **Test** : check server status

8-3 System control

When there is a need to upgrade firmware following addition of system features, you can easily upgrade on your own.

Save firmware in USB memory stick and insert it into USB port on front side of the system to display thru list. Select file and press Upgrade.



It may take a minute or one minue and 30 seconds depending on firmware. Please wait unitl reboot is finished. Do not plug out or take out USB memory stick during upgrade. Otherwise, it may cause trouble.

8-4 Set button

This is about automatic lock of manual buttons (front button, mouse button, remote control button) and button sound.

▶ Button sound

When manual button is pressed, beep sound occurs.

(V : beep sound ON , Ø : beep sound OFF)

▶ automatic lock

When specified hours pass by, the feature (LOCK) is deisgned to close the system automatically.

Once closed, you can use Select Channel, Split Screen and Sequence. As for the other feautres, you should log in again to use them. .

(If Lock is in operation, status bar icon will change)

▶ Emergency Record Lock

The feature is designed to deactivate "emergency record". When users select emergency record by mistake, the record will keep on operating and may unnecessarily consume hard disk and overwrite existing data.

(V : emergency record available, Ø : emergency record not available)

8-5 Initialize

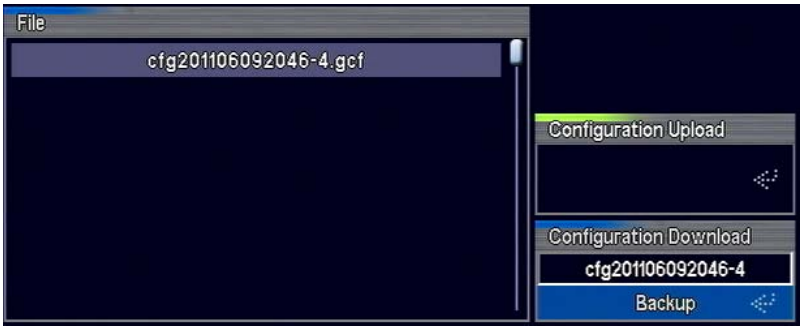
Available when you initialize default setting or factory setting

▶ initialize default setting: used to initialize all, excluding main settings such as (network, password), into defauilt setting

▶ initialize factory setting : used to initialize all into factory setting

8-6 Control specified value

The feature is designed to save environment conditions specified for the system in USB memory stick or restore them.



▶ Retrieve specified value : used to restore saved environemnt conditions to the system.

▶ Backup specified value: used to save specified environment value in USB memory stick or the system. Once backup is completed, wait until "complete" message appears.

Chapter 9 Set Menu –Record

9-1 Set record

You can set resolution, frame, event and other conditions necessary for record.

▶ Preliminary record

When event occurs, the video record starts a second to five seconds earlier. Preliminary record hours may change depending on resolution and frame specified. The lower the resolution and frame are, the preliminary record hours may last up to five seconds.

▶ Record

Set conditions necessary for record.

① Select camera use Y/N

(Not use)

(Use)

② Select voice record Y/N.

(Use voice record)

(Not use voice record)

③ Resolution : record image size.

(Select one among 360x240, 720x240, 720x480.)

④ Frame :Select the number of images to save per second

(Select one among 1, 2, 3, 5, 6, 7.5, 10, 15, 30fps. The number of frames you can select may vary depending on resolution.)

⑤ Screen quality: Select screen quality recorded. You can select one among five. "Maximum" represents the best quality and the largest data volume. .

(minimum < low< common < high < maximum)

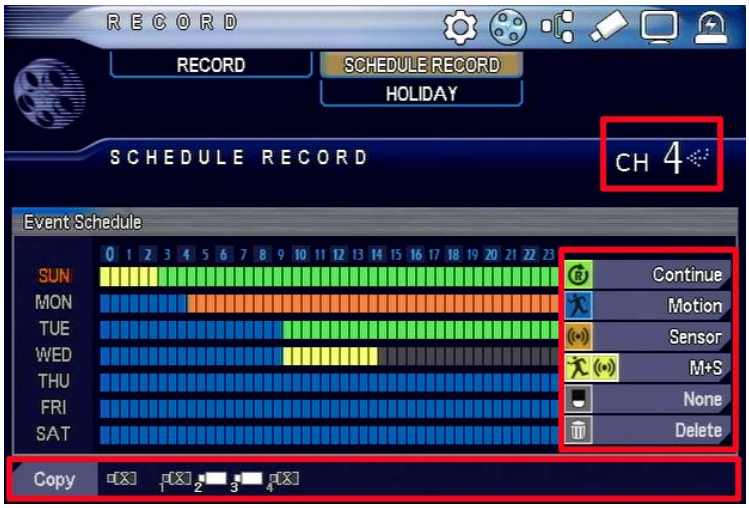
⑥ Post-record : After event occurs, select period for more record

(select: 10 seconds ~ 300 seconds))

9-2 Scheduled record

Scheduled record is designed to keep recording during specified period. You can specify by hour, channel, day and holiday. In addition, the feature enables you to specify detection method and record Y/N depending on nighttime security status or holidays for efficient control of security. Select "reserve record" to display "SR" in status bar as described below.

Able to set thru Menu -> Record -> Set schedule.



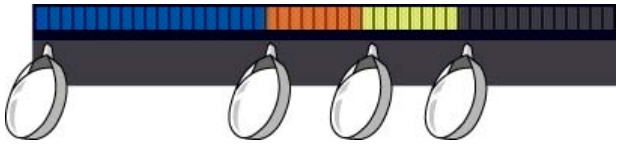
▶ Select channel

Select channel to apply schedule to.

▶ Apply schedule

Whenever selecting "Check" for the day or time involved, event color changes sequentially.

When selecting different time zone and pressing Check, different colored event signal appears.



Motion: record when motion occurs

Sensor: record when sensor is in operation

Motion or sensor : record when either of motion or sensor occurs

Continuation : record regardless of event

Erase schedule

Erase all

▶ Copy channel

Applicable to the other cahnnels as well as channel in current use.

(Not use)

(Use)

Select multiple channels to copy and press "Copy"

9-3 Set holidays

Set record for customized holidays in addition to pre-specified holidays.

You can set through menu-> record-> set holidays.

▶ **Select channel**

Select channel to apply schedule to.

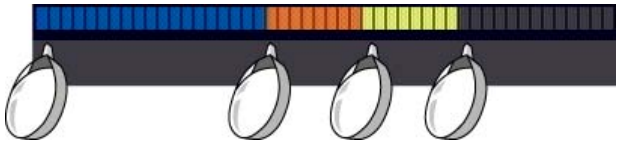
▶ **Select holidays**

Select holidays on the calendar to have them marked red-colored and then set record for the specified holidays.

▶ Apply schedule

Whenever pressing "Check" for the marked period, event color changes sequentially.

When selecting different time and pressing Check, different color appears.



▶ Copy channel

Applicable to the other channels as well as channel in current use.

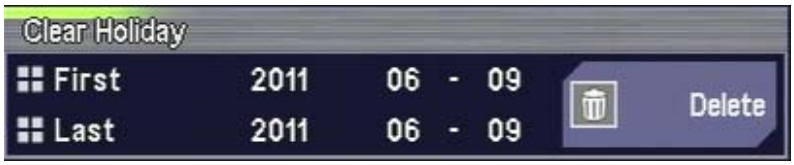
Select multiple channels to copy and press "Copy".

(Not use)

(Use)

▶ Delete holidays

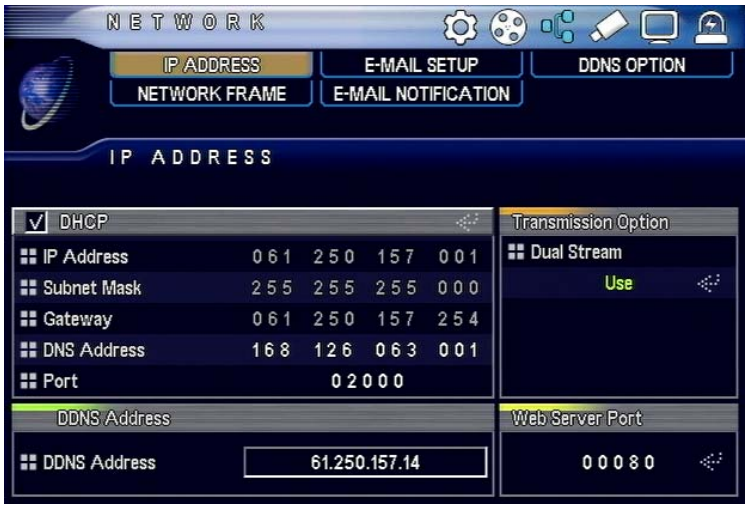
Enter the first and last date and press Delete for all-out deletion of holidays within the specified range.



Chapter 10 Set menu – Network

Set network in the system to keep the system controlled or monitored remotely.

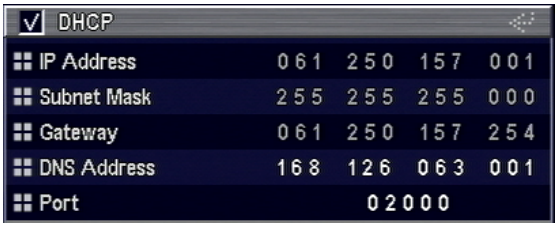
10-1 IP Address



▶ Use DHCP feature

In general, DHPC-supported internet network is most widely used.
DHCP may automatically be assigned IP.

Check "DHCP" to reboot the system and automatically receive IP through "network" menu as described below.

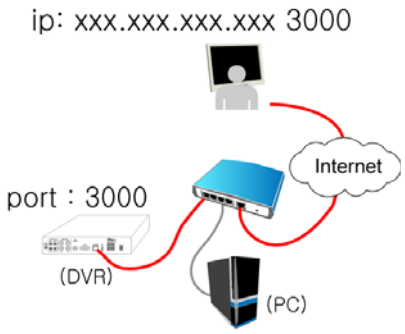


When you use router, you should port-forward the assigned IP address automatically.

☞ **Note**

What is port-forwarding?

When router is in use, you will find router is connected to devices (such as PC, DVR). When you receive request from outsider, you may not know what device you should use to send request. Because a single IP alone may recognize data transmitted externally, you may not access each of the devices. Port-forwarding is designed to resolve this kind of problem.

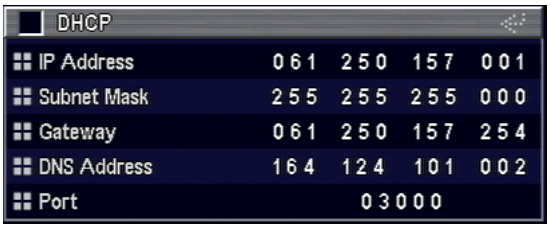


If you set port-forwarding, even the same internet line may be connected to port involved. (For more information regarding port-forwarding, refer to router manual of each manufacturer.)

▶ DHCP Feature, Not Use

When you're regular ID user, you can skip checking "DHCP" for use.

Fixed IP user should contact Internet provider to enter IP, subnet mask, gate, DNS address. Fixed IP represents unique number and thus does not require setting of separate port-forwarding.

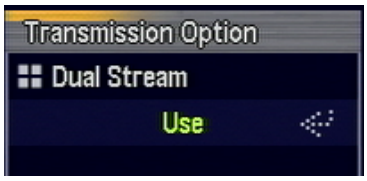


▶ DDNS Address

This is designed to receive remote service and represents default value “61.250.157.14” whether you’re changeable IP user or fixed IP user. Please use the default value as it is.

▶ Bandwidth

This is designed to transmit using searately specified transmission speed at a time of remote control.



- Use : Transmit value specified through menu “Network” -> “Network Transmission Frame”
- Not use : Transmit value specified through “Record” -> “Set Record” .

▶Web server port

In monitoring remotely, the system uses two types of remote monitoring involving software and website instead of software. This represents port used for remote monitoring via web and default value of 80.

For information regarding how to access, refer to “Remote Monitoring.”

10-2 Network transmission frame

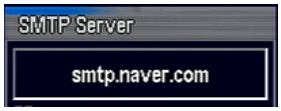
When you use "bandwidth" feature in setting network, it is transmitted to specified frame. '
The resolution is identical with "Set Record". Screen quality and frame alone are transmitted

10-3 Set E-MAIL

When event occurs, send text mail to registered E-Mail address.

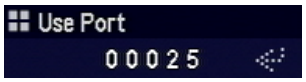
▶ Mail server

Enter user's mail server address. (ie : smtp.naver.com)



▶ Port

In general, No. 25 is used for mail server. If you find it hard to send mail, contact mail server and enter port number again. .



▶ Server password

Check and enter ID/Password.

▶ Mail address

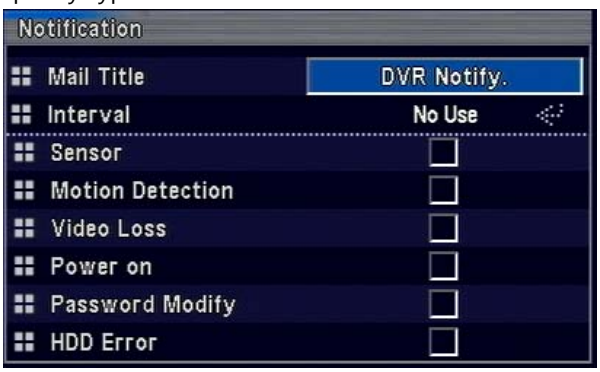
Enter e-mail address usable for the system.

▶ Receiver

Enter receiver's e-mail address. You can enter as many as three email addresses.

10-4 Types of alarms

Specify types of alarm to decide when to send alarm E-Mail.



▶ **Mail title** : enter e-mail title.

▶ **Notification interval**: The feature is designed to forestall massive arrivals of emails for ferquent events. When event occuts more than once during specified period, the feature is designed not to send additional email.

▶ **Sensor:** When sensor input occurs, send email.

▶ **Motion sense** : When Motion Sense occurs, send email.

▶ Video loss : When video input discontinues, send email.

▶ Power On : When power is supplied, send email. .

▶ Change password : When system password changes, send email.

▶ HDD error : When error occurs to hard disk, send email. .

10-5 DDNS OPTION

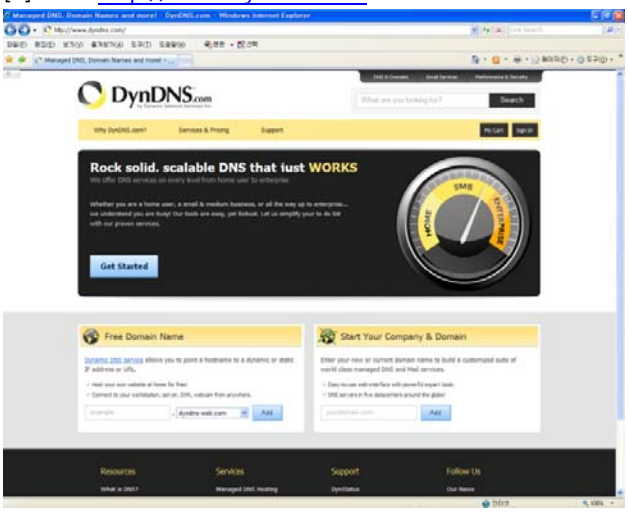
When you're changeable IP user, you should use private DDNS service instead of manufacturer's DDNS for remote access.

Please access http://www.dyndns.com/ before use to register yourself as a member. If system is installed in router, Set IP being currently used by the system as "DMZ".

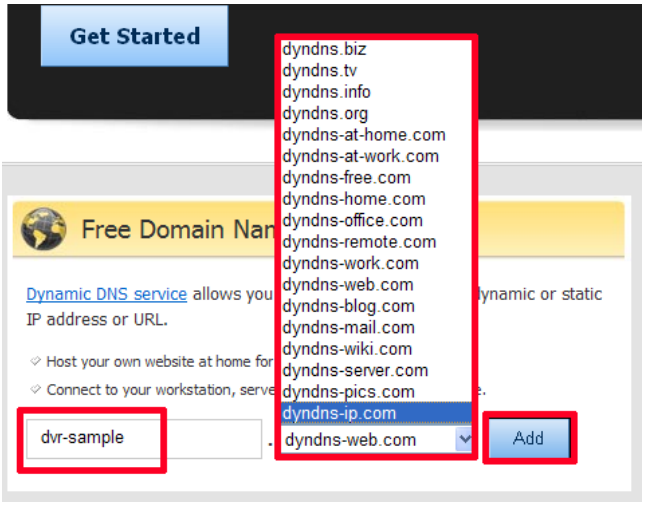
"DMZ" is desigend to keep selected IP open to all ports.

The following example shows what steps "hongkildong" is taking for subscription.

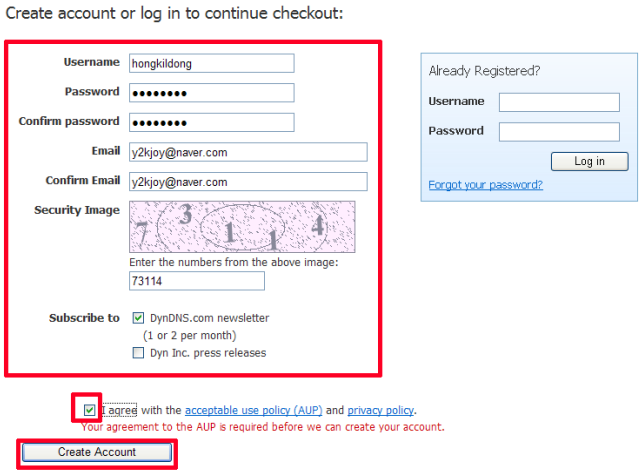
[1] Visti http://www.dyndns.com.



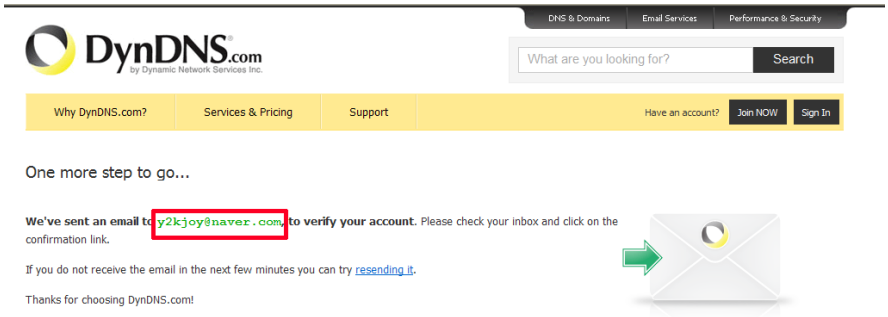
[2] Enter sub domain name (ie: dvr-sample) on the low side of main screen and select main domain name to be used for free. Select one at your disposal and then click "ADD."



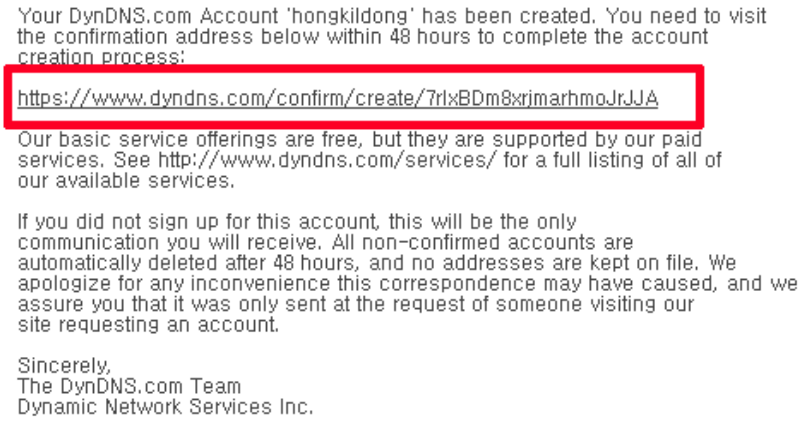
[3] Enter user informatin, such as name, password and email address and then click "Create Account". (Please use effective email address for certification.)



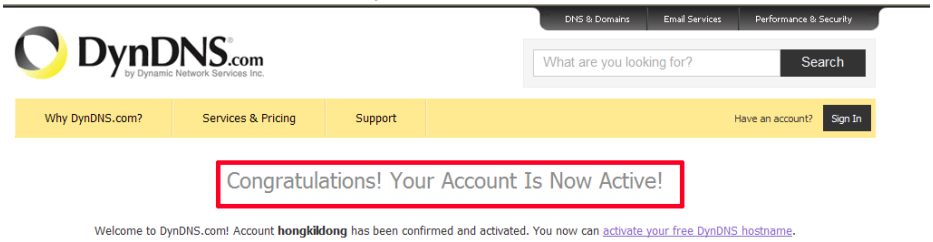
[4] When you receive email containing certificate, check enail.


DynDNS.com
DNS & Domains
Email Services
Performance & Security
What are you looking for?
Search
Why DynDNS.com?
Services & Pricing
Support
Have an account?
Join NOW
Sign In
One more step to go...
We've sent an email to y2kjoy@naver.com to verify your account. Please check your inbox and click on the confirmation link.
If you do not receive the email in the next few minutes you can try resending it.
Thanks for choosing DynDNS.com!

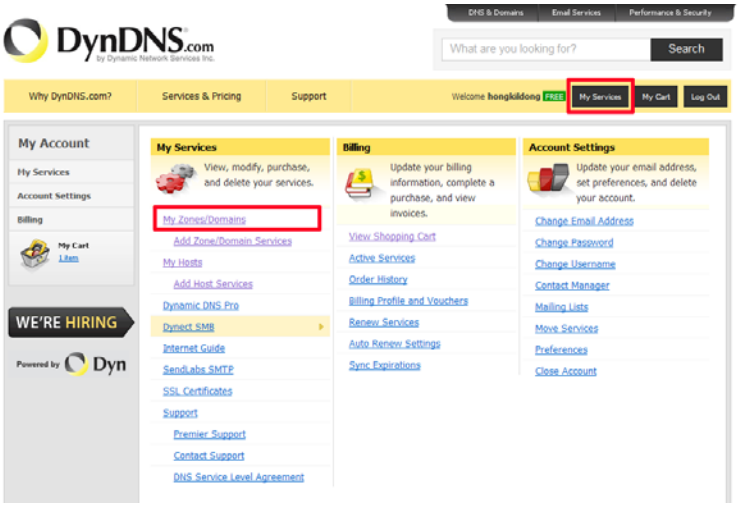
[5] After checking certificate, click the linked address, the underlying part, below for automatic certification.


Your DynDNS.com Account 'hongkildong' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:
https://www.dyndns.com/confirm/create/7rlxBDm8xrjmarhmoJrJJA
Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.
If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.
Sincerely,
The DynDNS.com Team
Dynamic Network Services Inc.

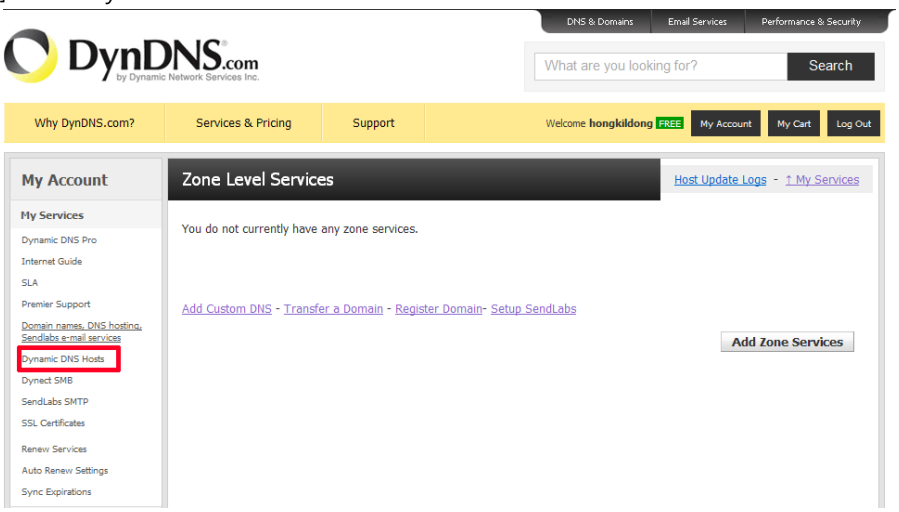
[6] Once certification is completed, you will be connected to web site belwo.



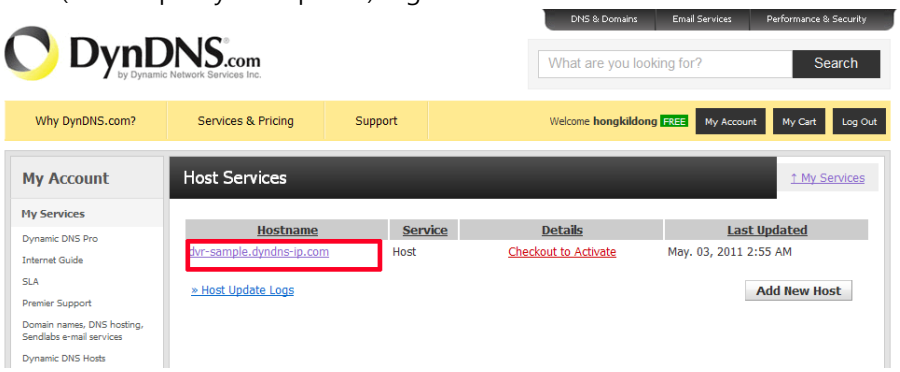
[7] After logging in, click "My Zones/Domains" in "My Service."



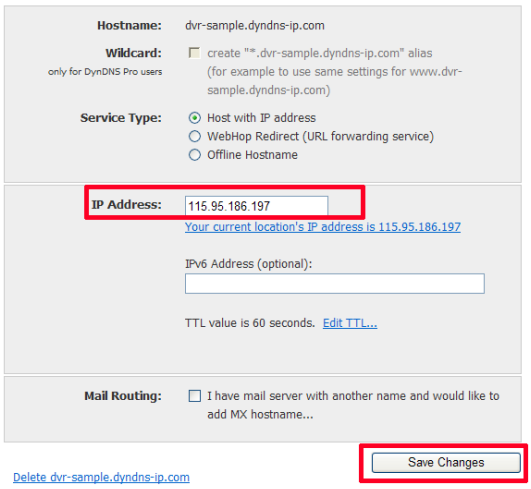
[8] Click "Dynamic DNS Hosts" on left menu.



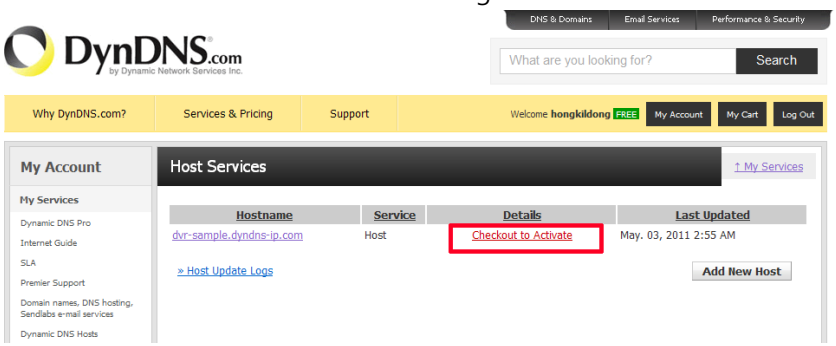
[9] Click (dvr-sample.dyndns-ip.com) registered at first.



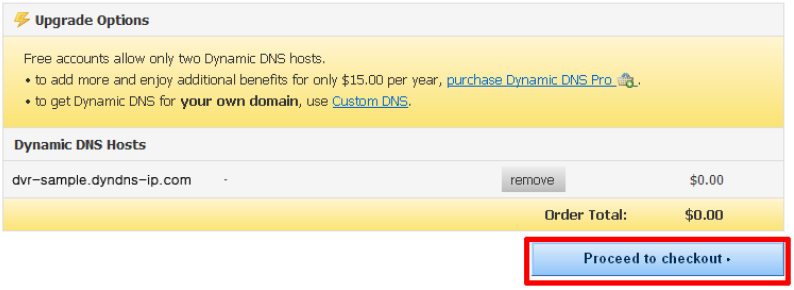
[10] Enter router's external IP in "IP Address." Access router setting to be informed of external IP. Once input is finished, click "Save Changes."



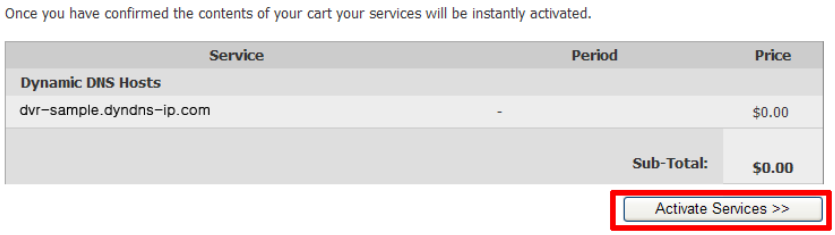
[11] Click "Checkout to Activate" to activate registered domain.



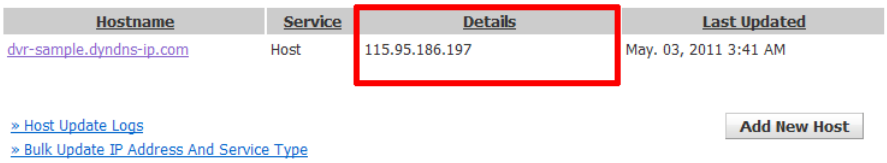
[12] Click "Proceed to checkout" on the low side.


Upgrade Options
Free accounts allow only two Dynamic DNS hosts.
• to add more and enjoy additional benefits for only $15.00 per year, purchase Dynamic DNS Pro.
• to get Dynamic DNS for your own domain, use Custom DNS.
Dynamic DNS Hosts
dvr-sample.dyndns-ip.com
remove
$0.00
Order Total:
$0.00
Proceed to checkout

[13] Click "Activate Services" on the low side.



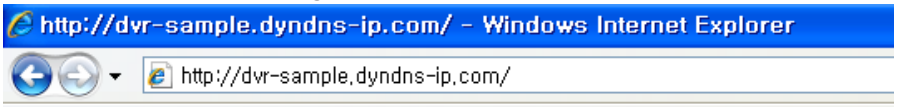
[14] Activate selected domain's IP.



[15] Enter ID/PW and domain in DVR setting. When IP changes, the feature is designed to update regularly.

(Screen above shows an example)

[16] Enter domain name registered in URL address for access.



☞Note: Service is available only 10 to 30 minutes after subscription to the web site.

Chapter 11. Set Menu – Camera

11-1 Controller

The feature is desigend to connect keyboard for controlling or operating system and use joystick to control pan-tilt.

▶ Model: Select keyboard model name connected to system. Identify model compatible with the system before purchase,

▶ Controller ID : ID is set as "0" in connecting keyboard. If you want to use different ID, change ID thru keyboard before use.

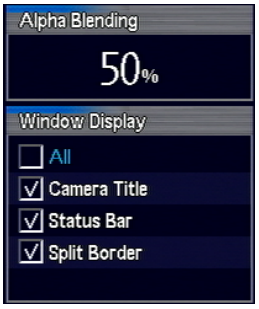
▶ Serial port : Use "RS-485" in connecting keyboard.

☞ **Note : Refer to Keyboard Manual for information regarding the use of keyboard.**

Chapter 12 Set menu – display

12-1 OSD

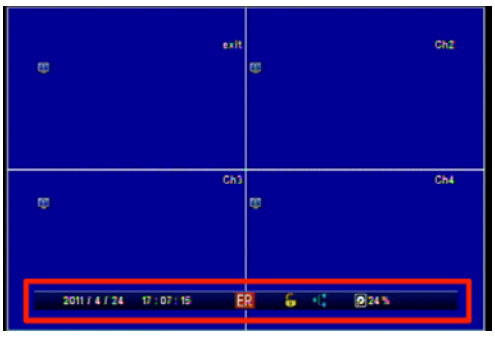
OSD is designed to decide whether to display status bar, title and split screen.



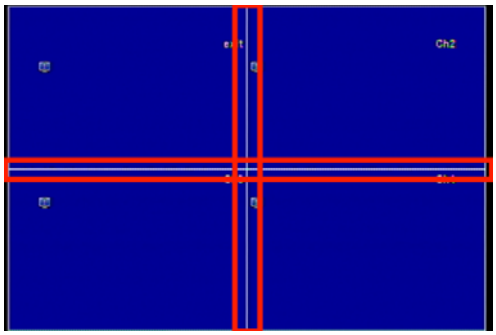
▶ All : displays camera title, status bar and split screen.

▶ Camera title : displays camera title by channel.

▶ Status bar: display status bar on the low side of screen, such as weather, time, record status, lock, network and remaining hard disk volume. .



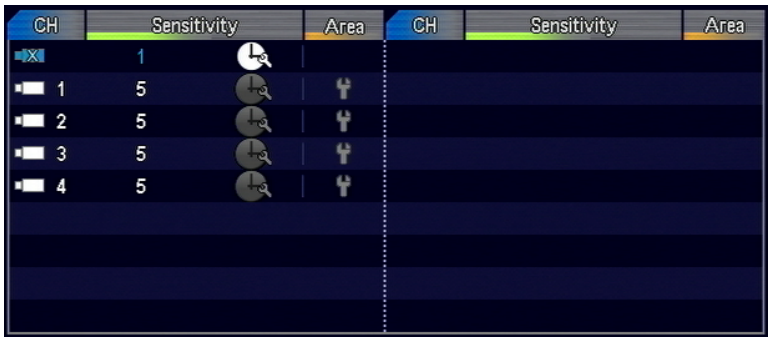
▶split screen : display split between channels.



Chapter 13 Set menu – Event

13-1 Sense motion

The feature is designed to specify area where motion may be sensed. The feature specifies area and sensitivity so that when motion is sensed, event record may be started.

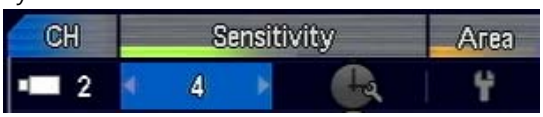


▶ Select channel : Select channel capable of sensing motion.

(Not use)

(Use)

▶ Sensitivity: Select sensitivity for motion.



- The higher the specified value is, the higher the sensitivity is(1~10).

- By selecting sensitivity as schedule", you can activate time icon and set sensitivity by hour.

▶ Range : Specify area where motion may be sensed.

Specify using arrow keya and click "check" for selection. .

- **Select area where motion may be sensed** : blue-colored area
- Cancel area where motion may be sensed :No signal
- **The area where motion may be sensed is marked red**.

☞ Note : Use hotkey to specify all areas

- No. "1" : Select all
- No. "2" : Cancel all

13-2 Internal Buzzer

When event occurs, internal buzzer sound is set off during selected hours.

range : one to 30 seconds ("-------" Not use)

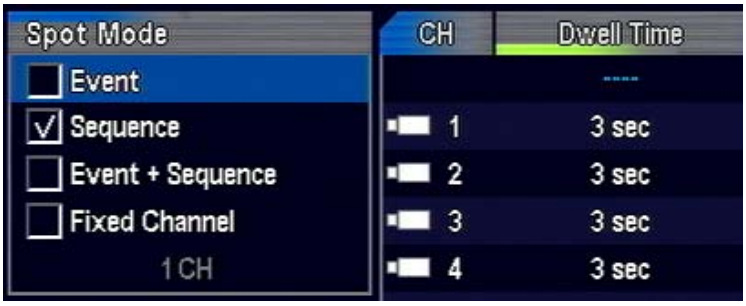
(sense motion)

(sensor)

(video loss)

13-4 Output SPOT

The feature is designed to sequentially display certain channels and events through separate monitor.



▶ Range : one to 30 seconds ("-------" pass)

▶ Spot Mode : Output follows when selected event occurs.

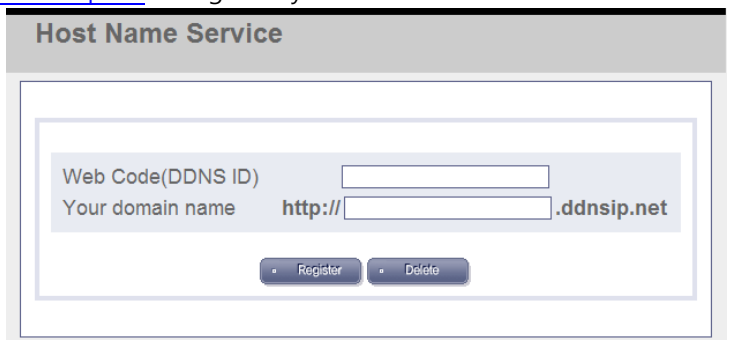
- Event : output follows after events, including sensor and motion, occur
- Screen switch : Seuqential output for all channels for specified period
- Event + screen switch : When events sequentioally occur during output, event channel first follows and automatically returns to sequential order.
- Fixed Channel : Output only selected channel.

Chapter 14. Remote access-Built-in viewer

Built-in viewer is designed to enable monitoring by accessing web browser using web server mounted to the system.

14-1 Access method

This represents the way to monitor thru access via web browser.
This chapter provides explanation on condition that network setting and router port-forwarding should be installed. If the conditions are not met, refer to "network" explanation for installation.
Visit [1] http://www.ddnsip.net to register system.



① Enter product's web code into Web Code(DDNS ID).
Web code is found in Retrieve menu -> system -> information -> web code.

② Enter easy-to-use tentative name in Your domain name.

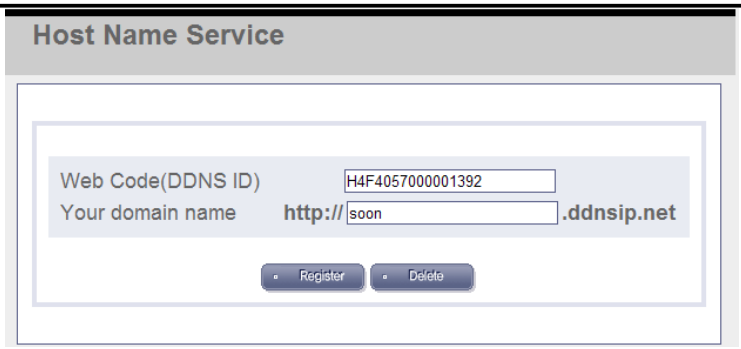
③ Select Register: Once input is finished, select "Register."
For deletion, enter both No. 1 and 2 and select Delete)

☞ **Note**

It takes as long as 10 minute to 15 minutes to enjoy service after registration in server. Please access 10 to 15 minutes later.

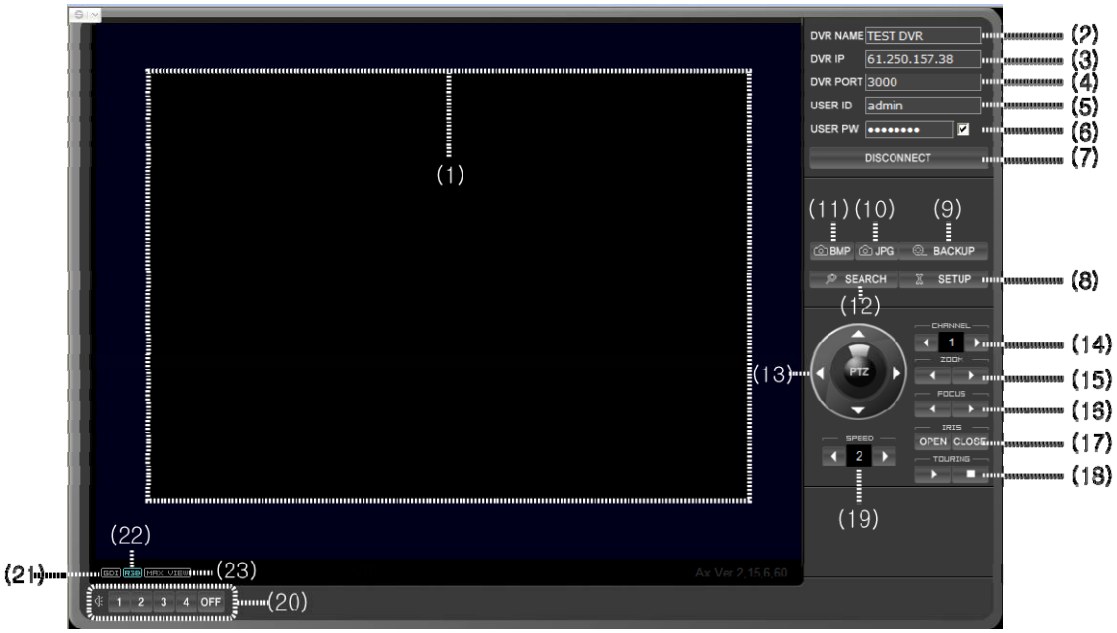
[2] Access method

If access method is shown as described below, execute web browser in PC and enter http://soon.ddnsip.net to access.



For first connection, click pop up screen on the upper side of web browser with right button of your mouse and download "ActivX" to install. Once installed, it means that DVR IP, DVR PORT is set as default value. Enter USER ID and USER PW and click "CONNECT" for connection.

14-2 Each Name and Method



(1) This represents video area. Whenever you click, selected channel returns to entire screen or split screen.

(2) DVR NAME: Enter temporary name. When you access again thru the same PC, the name may be used again.

(3) DVR IP : IP address linked thru system automatically is displayed.

(4) DVR PORT : Network port value set in system is automatically displayed.

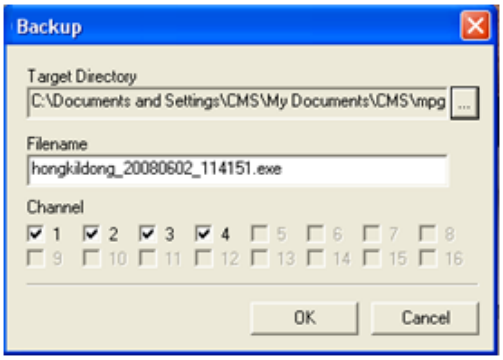
(5) USER ID : Enter user log-in account. (system log-in account)

(6) USER PW : Enter password.
(Note : Password automatically is entered when you access again.)

(7) CONNECT / DISCONNECT : access or cancel.

(8) SETUP : Able to install system remotely.
(Installation method is identical with the way of using system menu. Separate explanation is not provided)

(9) BACKUP : designed to back up video (live, renewed).



- Directory involved : Selects folder to save.
- File name : Name of file to save. Unless separate installation is found, it is automatically entered.
- Channel: selects channel to back up.

(10) JPG : Captures current video in jpg file and inform of saved folder.

(11) BMP : Captures with BMP file currently being shown and inform of saved folder.

(12) SEARCH : usable when searching remotely. The search method is identical with the way of using system. Separate explanation is not provided.

(13) Arrow key : usable for pan-tilt.

(14) CHANNEL : selects pan-tilt channel.

(15) ZOOM : represents pan-tilt camera ZOOM feature.

(16) FOCUS : controls pan-tilt camera focus.

(17) IRIS : controls pan-tilt IRIS feature.

(18) TOURING : keeps pan-tilt touring feature on/off.

(19) SPEED : controls speed of pan-tilt speed.

(20) AUDIO : controls volume.

(21) GDI : As one of essential modules controlling all of output devices thru window, GDI is used to output video. (When system load is increasing or when VGA card is on less than mid level or when PC has low specifications, it is not recommendable)

(22) RGB : The feature is designed to output video using graphic card installed in PC and is used to decrease PC load. The video screen quality may vary depending on graphic card quality.)

(23) MAX VIEW : enables monitoring by enlarging video only
(Just enter ESC to go backward.)

Chapter 15 Remote Access-iPhone

15-1 Install program

Access APP STORE to search “MPRMS“ and to download profram for installation.

15-2 Execute program

Once program installation in iPhone is finished, icons below are displayed.

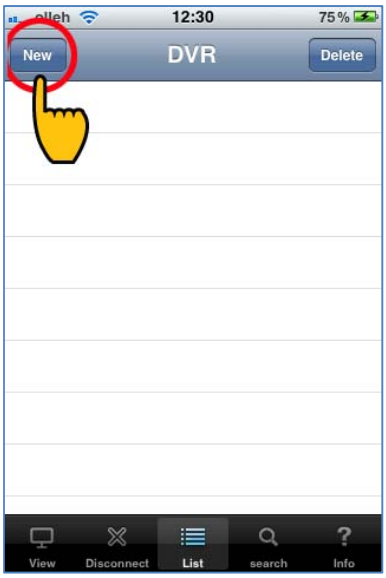
Select icon to execute.

15-3 Register product information

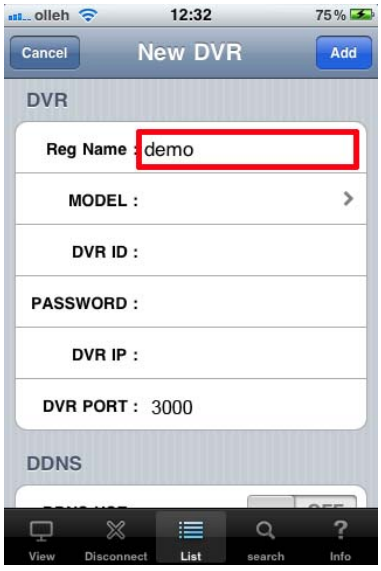
Enter network information to display product you hold thru iPhone.

[1] Register

Execute program in iPhone and click “New” for new registration.



[2] Enter Reg Name.

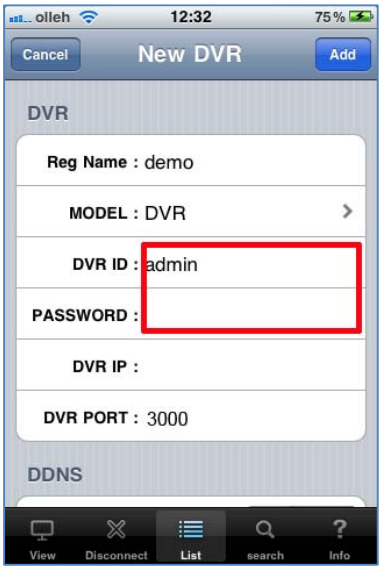


Enter name at your disposal.

[3] Select model name

◎ MODEL :Select "DVR" for DVR.

[4] Enter log-in (DVR ID) info.



◎ DVR ID : Enter User ID for accessing DVR,

◎ PASSWORD : Enter password registered in DVR main body.
(Note: "User ID" and "Password" in DVR's main body "menu" -> "system" -> password ")

[5] Enter DVR IP (Enter only fixed IP user)

Enter fixed IP user instead of changeable IP user.

(Note) As for fixed ip data, enter PI address registered in DVR.

[6] Set DDNS IP (Enter only changeable IP user)

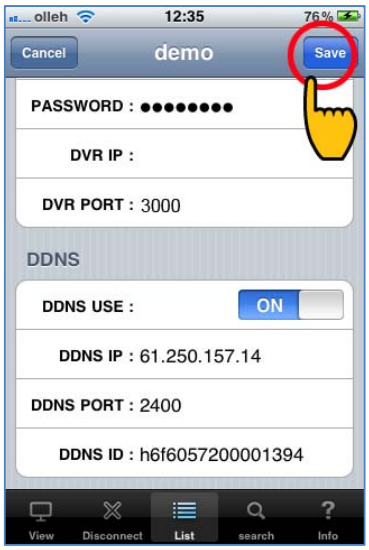
◎ Set fixed IP user as Not Use

◎ **Set changeable IP user as "Use."**

◎ **DDNS ID : Enter the product's unique "web code".**

(Note : Keep DDNS IP and DDNS PORT at default value.)

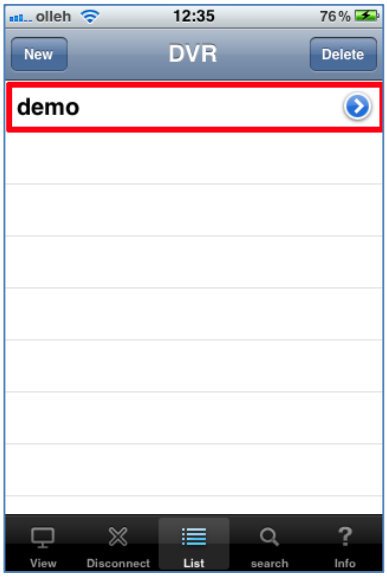
[7] Set DDNS IP (Enter only changeable IP user)



Once input is finished, press "ADD" to save.

15-4 See Live

[1] Click registered "DVR Name".



[2] Connect remote access

When channel is in motion, click "CH SELECT" to select number.

PTZ : select when controlling pan-tilt

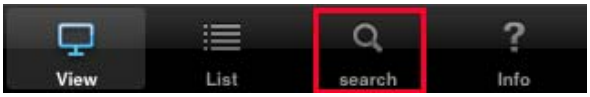
The screen displays only video excluding time, resolution and the name of channel.

The feature is designed to transmit still photo in certain intervals when video streaming is interrupted due to network load.

☞ See full screen : If you set aside iPhon, it switches into full screen.
(Touch any area of full screen viewer to retrieve menu)

15-5 Search

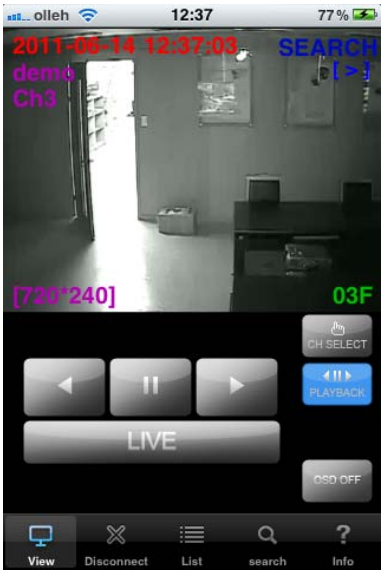
Touch "search" displayed on the low side of screen.



[1] Select date/time

After selecting date, touch "SEARCH" on the low side.

[2] Way of operating search



Go backward

Stop

Renew

Switch to Live

15-6 Relay out

Relay can be controlled remotely..

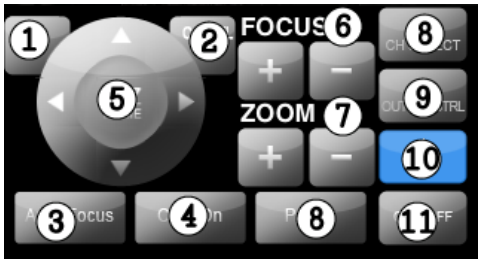
Time selection : Alarm output time selection.

OFF : Alarm off

Infinity : Unlimited alarm output

15-7 Operate PTZ(Pan-tilt)

PTZ is operable thru iPhone. The way of operating it thru CMS or main body is identical. Separate explanation is not provided.



(1) Select

(2) Cancel

(3) Camera's automatic focus button

(4) Pan-tilt's internal menu retrieval button

(5) Arrow button

(6) + (Increase) and – (decrease) are used for camera focus adjustment.

(7) + (Increase) and – (Decrease) are used to enlarge or reduce camera.

(8) Select cannel

(9) Relay out button (You can output relay temporarily)

(10) Select pan-tilt menu

(11) Display OSD thru live screen, ON/OFF button

Chapter 16 Remote access-Window Mobile Phone

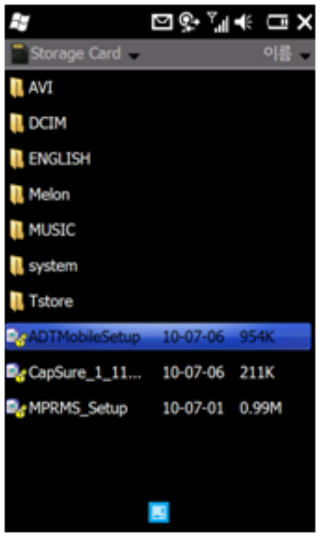
16-1 Install program

Download window mobile program and save in mobile phone.

16-2 Execute program

Copy file downloaded to mobile phone in temporary folder or folder selected by user and exeute it to install.

☞ **For ways of copying or installing program in mobile phone, refer to manufacturer's mobile phone manual.**



Execute "MPRM_Setup.CAB" copied into mobile phone to create "MPRMS" icon.

Once installed in mobile phone, icon appears.

16-3 Register Product Info.

Enter network info. to monitor product you hold thru mobile phone. Install network in DVR's main body before motion. Refer to user manual for main body to install network.

[1] Register

Execute program and click "ADD DVR" for registration.

[2] Enter info.

Enter info. as described above.

- NAME : Enter temporary user name.
- ID : Enter user ID using login info. during access.
- PASS : enter password using DVR log-in password.
- MODEL : Select “H.264” for H.264.

[3] Enter DDNS info.

The data below should be entered to install DDNS for changeable IP user.

- Use DDNS : Check if you're changeable IP internet user.
- ADDR : keep DDNS server address as default. (default : www.adtcapscctv.net)

- POR : Keep port intact given that port automatically changes depending on model.
- SAVE : Save info.

[4] Fixed IP User (excluding changeable IP user)

- Use STATIC : Check changeable IP internet user.
- ADDR : Enter fixed IP registered thru DVR.
- PORT : Enter PORT registered thru DVR. (Default : 3000)

16-4 PTZ Access /Disconnect

[1] Access

- Connect : access using input info, .
- Info Setup : click registered info.
- I Only : When network conditions are not good or when video streaming does not work

well, the feature is designed to successively transmit still image on regular basis.

[2] Disconnect

- Disconnect : If you want to disconnect, just click.

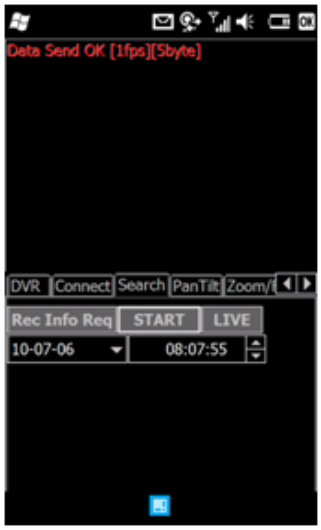
[3] Change channel

• CH : Select channel to monitor during access.

[4] Change access DVR

If you want to change access model to access other DVR, select registered model name from DVR menu to connect.

16-5 Search



If you want to search, select "Serarch" and click "Rec Info Req" to get record info. to activate date and time. Select date and time to search and click "START" to renew.

(Note: It may take long to get the process from search to renewal depending on network load.)

16-6 How to Use PTZ

While pan-tilt is in operation, click "Arrow" button to keep operating. If you want to stop, click Stop.

- Left : Move to the left.
- Up : Move in upper direction
- STOP : stop moving.
- Right : move to the right.
- Down :move in downward direction.
- Normal/Invert : move in opposite direction from where arrow points..

16-7 Zoom /Focus Feature

Control pan-tilt's zoom and focus.

Zoom feature is designed to enlarge or reduce camera image, while focus is designed to adjust camera focus.

- ZOOM IN/OUT : designed to enlarge/reduce camera image
- FOCUS IN/OUT : designed to adjust focus.

16-8 Pre-Set Feature

Pre-Set feature is designed to save camera location and to relocate when necessary.

- P1~P16 : Number to save.
- MOVE / SET : Feature varies depending on what you select.
  ◎ MOVE : Select one among P1~P16 and select "MOVE." Click "SEND" to move to the location saved.
  ◎ SET :Select one among P1~P16 to click "SAVE." Click "SEND" to save camera location into corresponding number.

16-9 Remote Alarm

The feature is designed to allow user to output alarm thru remote control.

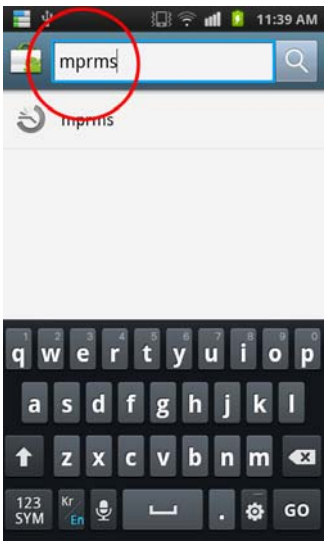
- Alarm output No. (1~16) : Select alarm output number. (Default: 1)
- Time : Output alarm during specified period.
- ON/OFF : Control output start/stop.
  (If you set the period at five seconds and click On, it stops five seconds later.)

Chapter 17. Remote Access-ANDROID Phone

17-1 Install program

Execute "market" program to install in mobile phone and search "MPRMS" to download program for installation. Once installation is finished, "MPRMS" icon appears on wallpaper.

(1)



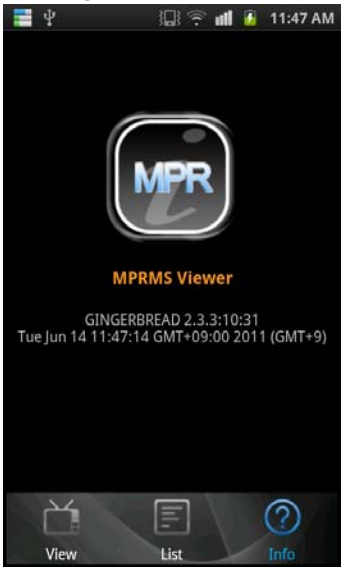
(2)

(3)

17-2 Execute program

Select "MPRMS" on wallpaper to execute prorgam.

(select icon)

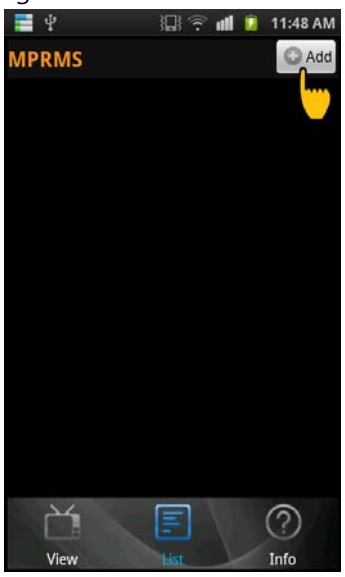


(screen where program is executed)

17-3 Register Product Info.

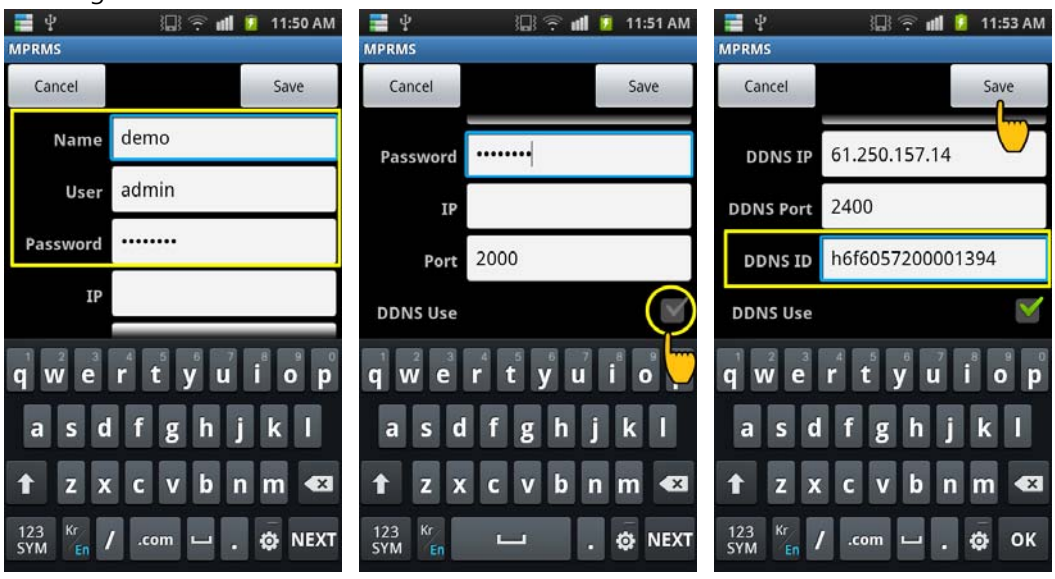
Enter product info. to monitor product you hold thru Android phone for use.

[1] Register



Select "Add" on the right upper side of screen to register.

[2] Enter registration info.



(1) (2) (3)

(1) Enter Name and product ID(User) and Password.

Name : enter temporary name at your disposal.

User : enter "User ID" when accessing DVR.

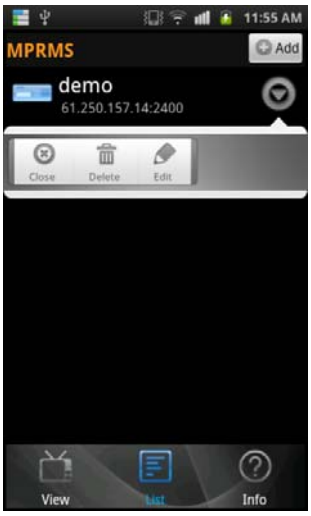
Password : Enter password registered DVR's main body.
(Note:"menu" -> "system" ->password "user ID" and "password")
IP : Enter fixed IP user and do not enter changeable IP user.

(2) Check "DDNS Use" on the low side to open space for "DDNS ID"
(Note: Fixed IP user does not need to check)

(3) In order to check DDNS ID, turn on DVR and go to menu -> system -> system info.. Take note of Webcode on the low side and select "SAVE" on the upper side.
(DDNS PORT automatically changes depending on DVR's entered webcode.)

17-4 Change/Delete Registration Info.

When you need to change or delete registered info., select triangle-shaped icon on the right side to bring menu..



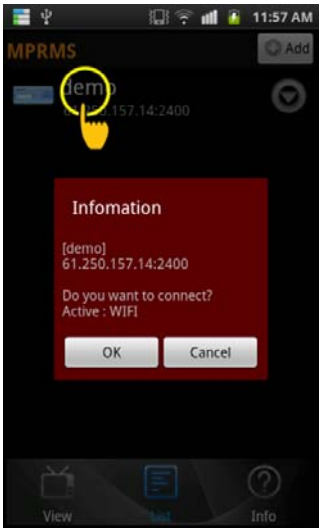
Select to change registered info.

Select to delete registered info.

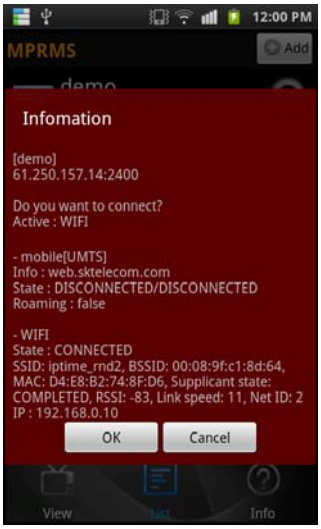
Close TOOL menu (overwrapped feature: access completed)

17-5 Remote access

Select registered list for access. Once selected, the picture below appears to display brief registered info. If you select red-colored wallpaper, "detailed info." appears. Click "OK" to execute monitoring program.



(Select list)



(Detailed info.)

17-6 Live

Live displays video described below real time.

(1) Number button : select channel.

(2) I frame : When network conditions are not good, receive only I frame for image transmission to display visual image in motion. .

(3) Show OSD : Select display status of channel name, date, time, event thru screen.

17-7 Main menu

Main menu icon is displayed on the low side of monitoring program. Select one to change monitoring feature.

Go backward or end monitoring program

Switch into Live mode (change channel, I Frame, OSD)

Switch into pan-tilt

Switch into pan-tilt pre-set

Switch into search mode

Switch into alarm mode

See registered info.

17-8 Pan-tilt feature

The feature is designed to control pan-tilt remotely.

(Select pan-tilt mode)

(Pan-tilt mode screen)

(1) How to switch into Pan-tilt mode

Select channel linked to pan-tilt and click Pan-tilt Mode on the low side.

(2) How to control pan-tilt

Switch into pan-tilt thru arrow button.

ZOOM feature is designed to enlarge or decrease by selecting + or -.

FOCUS feature is designed to adjust focus by selecting + or -.

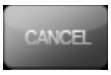
Touring feature is designed to operate in the order of registered pre-set number.

This is designed to operate IRS feature.

This is designed to retrieve pan-tilt menu.

This is automatic focus feature.

This is used as Check (Select) button in pan-tilt menu.

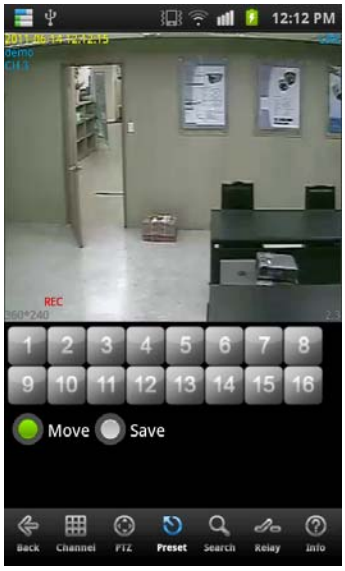


This is used as button to cancel Select or move to upper menu in pan-tilt menu.

17-9 Pre-set feature

This is designed to control pan-tilt preset feature.

(Select preset mode)



(Check preset mode)

(1) Way to select pan-tilt mode

Select channel linked to pan-tilt and click Preset Mode on the low side.

(2) Way to operate pre-set

- Move : Select “Move” and click Number to move.
- Save : Select “Save” and click Number to save current location.

17-10 Search

This is designed to search remotely.

(1. Select search mode)

(2. Select time search)

(3. Select date/time)

(1) Select search mode : select search mode.

(2) Select Time Search : Select Time Search to enter search conditions.

(Note: Select "To Live" to return to Live during search.)

(3) Enter date/time: Select date and time and click "Start Search" for search.

Fast backward

backward

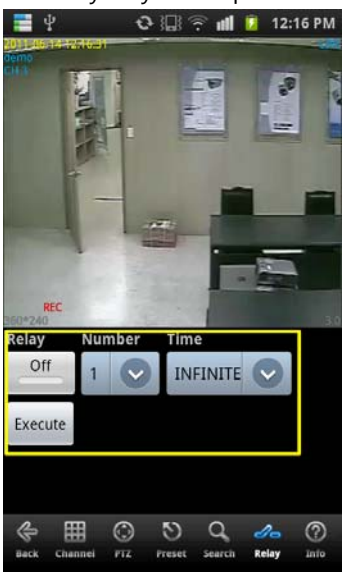
Stop

Play

Fast forward

17-11 Output alarm

This is designed to control alarm output remotely at your disposal.



(1) Relay : Select Use Y/N (on / off)

(2) Number : Select alarm output No.

(3) Time : Select alarm output time.

(4) Execute : Start alarm output as set in No. 1 to three.

17-12 Output Info.

This is designed to display info. currently accessed.

(Select info)

(Display LIST)

[Display info]

The information below represents examples.

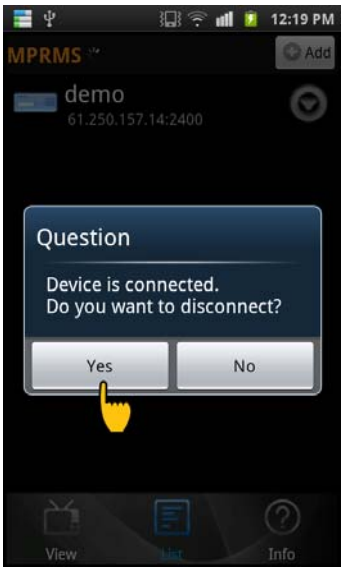
- IP : 61.250.157.37 : 2000 Via DDNS <-IP info. accessed.
- MODEL : 16CH <- channel 16
- WebCode : H6F6057200001394 <- product ID(webcode).
- F/W : 84, N/W:21 <- firmware version and network version.
- VSTD : NTSC <- video input time.

(Note : Korea adopts NTSC as video standard method)

17-13 Finish

This is designed to finish monitoring program.

(Select Back button)



(Select Yes button)

There are several ways to finish program.

Select “Back” on the low side and click “Yes” if message appears that access to device will be finished. Or you can select End instead of “back”.

Chapter 18. Specifications

Classification		4CH	9CH	16CH
Operating system		Embedded Linux		
Codec algorithm		H.264		
Audio algorithm		G723.1		
Video method		NTSC / PAL (선택)		
Video input/output	Video input	4Ch	9Ch	16Ch
	Video output	Loop Out (4/9/16), Composite (1), Spot(1), S-VHS(1) VGA(1)		
	Output mode	Small TV, CCTV, VGA monitor (select)		
Live		Real Time Live		
Split mode		1, 4	1, 4, 6, 8, 9	1, 4, 6, 8, 9, 10, 13, 16
Record resolution	NTSC	CIF(360 X 240), 2CIF(720 X 240), D1(720 X 480)		
	PAL	CIF(360 X 288), 2CIF(720 X 288), D1(720 X 576)		
Record frame	CIF	120/100 fps	270 / 225 fps	480 / 400 fps
	2CIF	120/100 fps	240 / 200 fps	240 / 200 fps
	D1	120/100 fps	120 / 100 fps	120 / 100 fps
Record mode		Emergency record, schedule record, sensor record, motion record, record before and after event		
Search	Search mode	Search calendar, date and time, event, start and end		
	Play speed	x1, x2, x4, x8, x10		
Audio	Input/output	4/1		
	Volume	Able to adjust volume		
Input sensor/output alarm		4/1		
PORT	RS-232	Keyboard control		
	RS-485	PTZ control		
	LAN	10/100/1000 Base-Tx Ethernet (RJ-45) - Fixed IP, DHCP & DDNS		
Network control		Video Dual-Stream (Local recording & Network Transmission)		
Remote access	Software	ADTeye		
	IE	http://www.adtcapscctv.net.com		
Backup	Internal	ODD BACKUP (OPTION)		

device	External	Local Backup by USB Memory Stick and Network Backup by CMS
HDD		(2 x SATA HDD) or (1 x SATA HDD & 1 x SATA ODD)
System Operation		Front button, USB mouse, IR remote controller, keyboard (Option)
others		Support multiple languages
		Able to enter Hangul for camera name
		Able to control as mouse moves in controlling pan-tilt
		Able to install backup viewer program and to convert into AVI
power		adopter 12V 5A
temperature		0℃ ~ 40℃
size		358 mm(W) X 67mm(H) X 335mm(D)
weight		3.5Kg